TRUCK CAMPER

OWNER'S MANUAL

Welcome Home!

WELCOME to the Palomino RV family, a division of Forest River Inc., and thank you for selecting our product. Congratulations for choosing a lifestyle that will provide you the freedom to enjoy recreation wherever you may choose.

This Owner's manual is designed as a Quick Reference guide for the operation and care of your new purchase. For more complete instructions regarding safety, maintenance and operation of the items used in the manufacturing of your RV, carefully read the booklets supplied by the component manufacturers. All information contained in this manual may not relate to your specific model, however booklets supplied by the component manufacturers and included in your Owner's packet will provide any additional information needed.

Your dealership personnel should be able to answer any questions or concerns you may have regarding your new product. If your dealer is unable to do so, please feel free to contact our Customer Service department for assistance. Your dealership will provide you with the appropriate contact information.

Your recreational vehicle was built using high standards set by Palomino RV/Forest River Inc,. and following the strict guidelines set forth by the Recreational Vehicle Industry Association, (RVIA) as well as complying with the requirements of all applicable state and federal agencies.

Please carefully read the Limited Warranty in the front of this manual. Forest River, Inc. has no other expressed or implied warranties of any type. You, as the owner, are responsible for providing proper maintenance as outlined in this manual and as set forth in the component manufacturers booklets.

FAILURE TO PROPERLY MAINTAIN YOUR UNIT COULD RESULT IN LOSS OF WARRANTY COVERAGE.

Several of our component manufacturers carry their own warranty and require separate warranty information to be filed with them. Please read all component manufacturers owner's manuals provided with your RV and file appropriate individual warranty cards as required.

You have joined a very elite group and as you begin making great memories using your new Palomino RV, we wish you many exciting and adventurous days of happy camping.

Drive Safely and . . . 'Go RV'ing!'

LIMITED WARRANTY — PALOMINO RV

RECREATIONAL VEHICLES BY FOREST RIVER INC.

SUMMARY OF WARRANTY: PALOMINO RV, 1047 East Highway M-86, Colon, Michigan, 49040, (Warrantor), warrants only to the ORIGINAL CONSUMER PURCHASER for a period of (1) year from the date of purchase or (12,000) twelve thousand miles, whichever comes first (Warranty Period), that the body structure of this recreational vehicle shall be free of substantial defects in materials and workmanship attributable to Warrantor.

EXCLUSIONS FROM THIS WARRANTY: Warrantor expressly disclaims any responsibility for damage to the trim and appearance items located in or on the unit where damage is due to condensation, normal wear and tear or exposure to elements. Warrantor makes no warranty with regard to the motorhome chassis including without limitation, the engine and drive train, any mechanical parts or systems of the chassis, tires, tubes, batteries and gauges, routine maintenance, equipment and appliances, or audio and/or video equipment and appliances. Some of these items may be warranted by their respective manufacturers and suppliers. Warranty information with respect to these items is available from your dealer.

The Warrantor further makes no warranty with regard to any product used for commercial purposes, as a permanent residence or as a rental unit, or any product not registered and normally used in the United States or Canada.

LIMITATION AND DISCLAIMER OF WARRANTIES: WARRANTOR EXPRESSLY LIMITS THE DURATION OF ALL EXPRESS AND IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE TO THE WARRANTY PERIOD OF (1) ONE YEAR OR (12,000) TWELVE THOUSAND MILES, WHICHEVER COMES FIRST. WARRANTOR EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AFTER EXPIRATION OF THE WARRANTY PERIOD. No action to enforce express or implied warranties shall be commenced later than ninety, (90) days after expiration of the warranty period. There is no warranty of any nature made by the Warrantor beyond that contained in this Warranty. No person has authority to enlarge, amend or modify this Warranty. (Some states do not allow limitations on how long an implied warranty lasts; therefore this may not apply to you.)

WARRANTOR'S OBLIGATIONS: Warrantor will remedy substantial defects in materials and workmanship caused by Warrantor. Warrantor shall elect to remedy the defect from among the following: repair, replacement or refund. Warrantor may not elect refund unless the Purchaser agrees. , Or if the Warrantor is unable to provide replacement and repair is not commercially practicable or cannot be timely made,. Warranty performance can only be obtained at Warrantor's authorized dealers and service centers and from Warrantor. All costs incurred in transporting the recreational vehicle for warranty service shall be borne by Purchaser. Warrantor shall remedy the defect within a reasonable time, not to exceed sixty (60) days after delivery by Purchaser. All of warrantor's expenses in remedying the defect shall be borne by Warrantor.

PURCHASER'S OBLIGATIONS: Purchaser and Dealer must complete and return the Warranty Registration form within (10) ten days of purchase, to validate this Warranty. The return of this form is a condition precedent to warranty coverage. Failure to return the completed form to the Warrantor will invalidate this warranty. Purchaser shall deliver this recreational vehicle for warranty service within a reasonable time after discovery of a defect and in no event after expiration of the Warranty period, which Warranty Period is (1) year or (12,000) twelve thousand miles, whichever first occurs. All expenses incurred by Purchaser in obtaining warranty service shall be borne by Purchaser. Purchaser can obtain a list of persons authorized to perform warranty service by contacting Warranty at the above address.

EVENTS DISCHARGING WARRANTOR FROM OBLIGATION UNDER THIS WARRANTY: Misuse or neglect, including failure to provide reasonable and necessary maintenance, unauthorized alteration, accident, improper loading, use as a permanent residence, commercial use, or leasing of the recreational vehicle, shall discharge Warrantor from any obligation under this Warranty.

PARTS AND DESIGN CHANGES: Warrantor reserves the right to change the parts and design of its recreational vehicle from time to time without notice and with no obligation to maintain spare parts or make corresponding changes in its products previously manufactured.

OBTAINING WARRANTY SERVICE: It is recommended that all warranty service be done by the authorized dealer from whom you purchased your unit. This is to insure your local dealer's personal interest in your complete satisfaction. If service becomes necessary as you are traveling or following a move, service under this warranty will be done by any authorized dealer in the United States or Canada. Such service should, whenever possible, be scheduled by an appointment in order to avoid possible delays.

WARRANTY REGISTRATION: A Warranty Registration form is to be completed by the owner and dealer at the time of purchase, and returned to Warrantor. The return of this form is a condition precedent to warranty coverage. Failure to return the completed form to Warrantor will invalidate this warranty.

OTHER WARRANTIES: as indicated in the paragraph entitled "Exclusions From This Warranty", above, their manufacturers or suppliers may warrant certain items that are not covered by this Warranty separately. In order to validate those warranties, you may also be required to complete and return to the appropriate manufacturer the warranty forms included with the information package. These other warranties may cover such items as chassis, motorhome chassis, tires, tubes, batteries, optional generators, and appliances, which are not covered by the Limited Warranty. For service or parts required for these products, it may be necessary to write or call the product manufacturer to obtain the nearest authorized service center. In requesting parts for separately warranted products from the manufacturer of the product or its authorized service center it may also be necessary to first obtain a warranty work authorization number before the work is done. It may also be necessary to provide the Product Name, Model and Serial Number along with the description of the problem and part needed, plus shipping instructions. See these warranties with respect to their terms and conditions.

OWNER ASSISTANCE: Your personal satisfaction and good will are most important to Palomino RV, as well as a confident and pleasant relationship with our dealers. We at Palomino RV recognize that there may be occasions where a warranty or service problem is not handled satisfactorily, resulting in misunderstandings. If your problem has not been handled to your satisfaction after discussing it with the dealership management, we welcome you to contact the Palomino RV Customer Service Manager, at the address stated above, who will communicate with the local dealer, our recommendations for an agreeable solution.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

ADDITIONAL WARRANTY INFORMATION

LIFT SYSTEM

If the lift system is determined to be defective during the warranty period, Palomino RV will remedy the defect without charge, within a reasonable time, after receipt of written notice, either by repair or replacement. Warranty service may be obtained from Palomino RV or its' authorized dealers. or persons designated by Palomino RV.

In the event you have an unauthorized repair performed on a defective lift system, and said repairs are covered by this Warranty, Palomino RV shall be liable, only for the cost of the repair as performed by Palomino RV or an authorized dealer.

Warranty repairs will commence within a reasonable time, after Palomino RVs receipt of written notice of the defect and will be completed within a reasonable time, subject to availability of parts and scheduling.

Exclusions

This warranty does not cover defects caused by:

1.) Negligence in operation and maintenance

2.) Misuse of lifter system

3.) Damage not resulting from defect or malfunction (act of God)

4.) Any damage whatever which is caused by, or related to, any alteration of a Palomino RV lifter system.

5.) Claims relating to unauthorized repairs, damage or defects

PURCHASER'S OBLIGATION

You shall give written notice to Palomino RV, (Division of Forest River Inc.) 1047 East Highway M-86, Colon, MI. 49040, within a reasonable time after discovery of the defect. This written notice should contain the following information:

1.) Your name and mailing address

2.) Proof of date of purchase

3.) Model, year and serial number of the camper

4.) Name and address of dealer from whom camper was purchased.

5.) Description of the defect

All costs incurred by you in transporting the camper for warranty service shall be borne by you. No action to enforce this Warranty shall be commenced later than three (3) months after the expiration of the warranty period.

WARRANTY REGISTRATIONS

Your warranty registration records should be completed and received by the manufacturers of *component parts, as they may be a condition of this warranty.

THIS PALOMINO RV WARRANTY IS VOID UNLESS YOUR WARRANTY REGISTRATION IS RETURNED TO: PALOMINO RV, 1047 EAST HIGHWAY M-86, COLON, MICHIGAN 49040, PHONE (269) 432-3271.

***A COMPONENT MANUFACTURER IS A MANUFACTURER OF ANY PRODUCT INSTALLED, OR USED IN THE PRODUCTION OF, YOUR CAMPER.**

Table of Contents

WELCOME 1
PALOMINO RV WARRANTY 2
ADDITIONAL WARRANTY INFO 3
TABLE OF CONTENTS 4
MANUFACTURERS INFORMATION 5
COMPONENT MANUFACTURERS 6

SECTION 1
CUSTOMER INFORMATION
Taking Delivery 5
Dealer Responsibilities 7
Owner Responsibilities 7-8
Pre-Delivery Inspection/Warranty Reg Form 9

SECTION 2
SAFETY & IDENTIFICATION
Vehicle ID Decals and Plates 10
LP Gas & Fire Safety 11-12

SECTION 3
WEIGHING, LOADING
Weighing Your Truck & Camper 13
Matching Truck & Camper 13
Truck Payload & Weight 14
Finding Center of Gravity for Loading 14
Attaching Camper To/Removing from Truck 14
Axle Weight/Tire Safety 16-17
Electrical Connection to Truck 17
Manual & Electric Jacks 17-18
Support Equipment 19

SECTION 4
LIVING QUARTERS & SAFETY
Condensation & Humidity 20
Safety Devices 21-23

SECTION 5
ELECTRICAL & LP OPERATION
Electrical & Battery 23-24
Circuit Breakers/Water Pump Switch 25
Monitor Panel & Fuses 25
12 Volt / 120 Volt Systems 25-26
Generator/Converterr (Option) 27
LP Gas System 28-30

SECTION 6
SLIDE ROOM OPERATION
Operating System 30
Manual Over-ride 31
Troubleshooting 31-32

SECTION 7
PLUMBING
Fresh Water 32
Waste Water/Holding Tanks 33-35

SECTION 8
APPLIANCES
General Appliance Info 36
Range/Oven 36-37
Refrigerator 38
Furnace 38-39
Water Heater/Water Pump 39-40
Heat & Cool Thermostat 41
TV/Antenna 41
Air Conditioner 42
Converter/Battery Charger 42

SECTION 9
CARE & MAINTENANCE
General Maintenance/Exterior 42-45
General Maintenance/Interior 45-46
Maintenance Charts 47
Winterization & Storage 48
Dewinterization 49
Effects of Formaldehyde 50
WaterPur™ Water Treatment System 50-52
Camper Identification Sheet 53
CoachNet Emergency Roadside Asst 54

LEGEND

Listed below are symbols and descriptions you will find throughout this manual. They are used to alert you to possibly dangerous or hazardous situations. When you see these symbols, please read them carefully and follow the instructions to help prevent damage to your recreational vehicle and for your personal safety.

DANGER DANGER! (Indicates a hazardous situation which, if not avoided, will result in death or serious injury.) This sign is commonly RED.

⚠WARNING WARNING (Indicates a hazardous situation which, if not avoided, could result in death or serious injury.) This sign is commonly ORANGE.

CAUTION CAUTION (Indicates a hazardous situation which, if not avoided, could result in vehicle damage or minor to moderate injury.) This sign is commonly YELLOW.

STATEMENT CONCERNING AMENDMENTS TO THE SONG-BEVERLY WARRANTY ACT

"A buyer of this product in California has the right to have this product serviced or repaired during the warranty

period. The warranty period will be extended for the number of whole days that the product has been out of the buyers' hands for warranty repairs. If a defect exists within the warranty period, the warranty will not expire until the defect has been fixed. The warranty period will also be extended. If the warranty repairs have not been performed due to delays caused by circumstances beyond the control of the buyer, or if the warranty repairs did not remedy the defect and the buyer notifies the manufacturer or seller of the failure of the repairs within 60 (sixty) days after they were completed. If, after a reasonable number of attempts, the defect has not been fixed, the buyer may return this product for a replacement or a refund subject, in either case to deductions of a reasonable charge for usage. This time extension does not affect the protections or remedies the buyer has under other laws."

MANUFACTURER'S WARRANTIES

The following list of components has been compiled to help you recognize which products installed

on your truck camper may have their own warranty. If you have any of these components on your camper, be sure to check the manufacturer's literature supplied with your Palomino RV Owner's packet to confirm whether they require you to register your purchase with them to validate their warranty. These warranties usually apply only to the first owner of the recreational vehicle. We recom- mend that you send the various warranty registration cards immediately, to each individual product manufacturer, before any time constraints regarding registration, expire.

Manufacturer's literature is supplied by each individual company according to the specific items used in the production of your RV. This information is part of the Owner's packet you received with your camper. Only those products which are used on your unit will be included in this packet. Inspect this literature with your dealer during the pre-delivery inspection and report any literature shortage to the dealer at that time. Below is an example of the types of information you will find.

APPLIANCES

Range
Range Hood
Microwave/Convection Oven
Refrigerator
Roof Air Conditioner
Furnace
Radio/Clock
TV/VCR/CD/DVD

ELECTRICAL

110/12V Converter
Generator
Battery

WATER & DRAINAGE

Water Heater
Water Pump
Water Purifier
Faucet
Toilet

LP GAS

LP Bottles
Regulator

MISCELLANEOUS

Fire Extinguisher
CO Detector
Smoke Detector
LP Detector
Rear Ladder

TAKING DELIVERY

The dealer will complete the Pre-Delivery Inspection / Warranty Registration form when you take delivery of your new camper. If you do not have a copy of this form in your Owners Packet, request a copy for your records. It is an important part of the history of your RV.

A qualified dealer representative will perform a 'walk-through' demonstration which will provide you with important information regarding the operation of your unit. Be sure you fully understand the information given, and the proper functioning of your camper, to insure you have the best camping experience possible. Your dealer will fully explain all the system functions and will supply the component information for products used in the manufacture of your camper.

Component Manufacturers

Component	Vendor	Phone Number	Web address
Antennas	Winegard	800-288-8094	www.winegard.com
Apollo Microwaves	Midwest Sales	800-772-7262	
Awnings	Carefree of Colorado	800-621-2617	www.carefreeofcolorado.com
Awnings	Dometic	800-544-4881	www.dometicusa.com
Axle Assembly	Alko-Kober	574-294-6651	www.al-kousa.com
Axle Assembly	Lippert	866-524-7821	www.lci1.com
Central Vacumn system	HP Products		
Euro Chair Leather	Partner Supply	574-266-8400	
Fireplace	National Supply	574-295-9200	
Frames FW & TT	Lippert	866-524-7821	
Furnace	Atwood	815-877-5700	
Furnace	Suburban	800-659-2138	www.suburbanmfg.com
Furniture	Mastercraft	260-463-8702 x. 243	
Generator	Generac	574-293-6503	www.guardiangenerators.com
Generator	Onan	800-888-6626	www.cumminsonan.com
Goodyear Tires & Rims	Tredit Tire & Wheel	574-293-0581	
Hitch Pin Box	Trail Air	800-998-4238	www.trailair.com
Landing Gear	Lippert	866-524-7821	www.lci1.com
Microwaves	Amana	800-544-5513	www.amana.com
Microwaves	GE	800-432-2737	www.geappliances.com
Microwaves	Magic Chef		
Power Converter	Cheng/ WFCO	877-294-8997	
Power Converter	Parallax	800-443-4859	www.parallaxpower.com
Ranges	Maytag/ Whirlpool	800-544-5513	
Recliner, La-Z-Boy	West Side Furniture	574-533-9545	
Refrigerators	Dometic	800-544-4881	www.dometicusa.com
Refrigerators	Norcold	800-543-1219	www.thetford.com
Roof A/C	Dometic	800-544-4881	www.dometicusa.com
Roof Vent	Fantastic Vent	800-521-0298	www.fantasticvent.com
Rubber Roof & Sealant	Alfa		
Rubber Roof & Sealant	Dicor	574-264-2699	
Satelite	King Dome	800-982-9920	www.kingcontrols.com
Satelite	KVH	401-847-3327	www.kvh.com
Shades	Irvine Shade	574-522-1446	
Slide Out assemblies	Lippert	866-524-7821	www.lci1.com
Slide Out assemblies	Power Gear	888-239-2537	
Stabalizing Jacks	Lippert	866-524-7821	
Tires & Rims	Carlisle	800-260-7959	
Tires & Rims	RFD Corporation	574-295-3939	
Toilet	Sealand	800-321-9886	www.sealandtechnology.com
Toilet	Thetford	800-543-1219	www.thetford.com
Washer/ Dryer	Majestic	800-678-8002	www.majesticappliances.com
Water Heater	Suburban	800-659-2138	www.suburbanmfg.com
Water pump	Shurflo	574-262-0478	www.shurflo.com
Windows	Kinro	574-533-8337	www.kinro.com

Making a Service Appointment

Always call ahead for an appointment unless you have a true emergency. Monday and Friday are usually the busiest days for the Service department, as well as just before a holiday. Give them ample time to schedule your truck camper for service.

When you call to schedule your appointment, have the following information available:

1.) Identification Number or serial number, containing 17 letters and digits, beginning with 4X4S.

2.) Type of unit (for example, 2008 Winter Creek Truck Camper).

3.) Date of purchase.

4.) Description of the problem.

5.) History of repairs and repair center location (where the repairs were performed).

6.) A calendar with your schedule noted, for convenience in coordinating a service date that works for you and the repair center.

Organize

Planning ahead and being prompt when having service is beneficial for all. When someone misses their appointment or arrives late, it disrupts the service schedule for the entire day so drop your unit off at the scheduled time and on the scheduled date. Have a list ready, be specific and reasonable with your expectations. Some repairs may require special order parts.

Waiting at the Repair Facility

For safety reasons, most insurance policies prohibit non-employee personnel to be in the work area.

If it is necessary for you to wait until the repairs are completed, most dealers provide you with a safe, comfortable customer lounge.

DEALER RESPONSIBILITIES

1.) The dealership is responsible for inspecting both factory and dealer installed components for proper operation. This is known as the Pre-Delivery Inspection and Systems Check.

2.) Your dealer is required to provide a thorough and complete walk-through demonstration. This demonstration should provide a good understanding of how your new camper operates.

3.) The owner's information packet should be presented at this time. This information should include all warranty cards, component information, operation and maintenance instructions relating to your new truck camper.

4.) All component warranty registration forms should be discussed and/or completed at this time. Your selling dealer should explain and you should fully understand, the warranty provided on your camper. Be sure you understand the Optional 2nd Year Protection Plan offered by Palomino RV/Forest River Inc. Ask any questions you may have before leaving the dealership.

5.) Your dealer should provide you with information concerning any need for service for your unit, whether in or out of their area. They should also provide you with the contact numbers for the dealership, both during and after hours, along with contact information for Palomino RV.

OWNER RESPONSIBILITIES

1.) Regular and proper maintenance. As the owner, you have the responsibility to properly maintain your truck camper. Be sure you have service performed in a timely manner. Don't ignore a problem; sometimes a phone call is all that's needed. The service technicians will advise you if an appointment needs to be scheduled.

2.) Familiarize yourself with your camper. Observe all the component manufacturers instructions regarding the use and service of their products.

3.) Complete and return all the warranty cards to each respective manufacturer. Doing so may help you avoid the loss of warranty coverage.

NOTE: MODIFICATIONS TO YOUR CAMPER, WITHOUT WRITTEN AUTHORIZATION FROM PALOMINO RV, COULD RESULT IN REDUCTION OR LOSS OF WARRANTY COVERAGE. CONTACT YOUR DEALER BEFORE MAKING SUCH CHANGES.

OWNER RESPONSIBILITIES CON'T'D.

The following are suggestions to assist you in avoiding most warranty issues:

1.) Read your warranties and review them with your selling dealer. The dealer's obligation is to educate you regarding the proper and safe operation of your camper and all its' components.

2.) Be sure to inspect the entire camper and note any service issues.

3.) Locate all paperwork and ask any questions you may have before leaving the dealership.

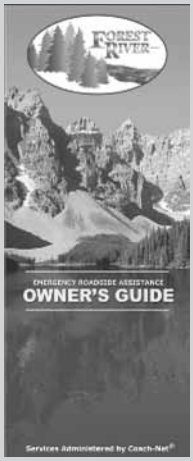
NOTE: PALOMINO RV WANTS YOU TO HAVE THE BEST POSSIBLE ADVENTURE WITH YOUR NEW TRUCK CAMPER. TO GET THE MOST ENJOYMENT OUT OF YOUR NEW CAMPER AND TO ENSURE YOU FULLY UNDERSTAND HOW IT OPERATES, PLEASE DISCUSS WITH YOUR DEALER, ANY QUESTIONS OR CONCERNS YOU MAY HAVE REGARDING YOUR CAMPER, BEFORE LEAVING THE DEALERSHIP OR USING YOUR CAMPER FOR THE FIRST TIME.

NOTE: USE YOUR NEW TRUCK CAMPEER RESPONSIBLY. YOUR CAMPER WAS NOT DESIGNED TO BE USED AS A PERMANENT DWELLING, BUT FOR SHORT TERM AND RECREATIONAL USE. IF YOU INTEND TO USE YOUR TRUCK CAMPER AS PERMANENT HOUSING, BE ADVISED THAT IT COULD CAUSE PREMATURE WEAR ON YOUR APPLIANCES, FURNACE, WATER SYSTEMS, CARPET, DRAPES, UPHOLSTERY, BEDDING AND INTERIOR SURFACES. PREMATURE WEAR CAUSED BY PERMANENT RESIDENCY MAY BE CONSIDERED ABNORMAL OR ABUSIVE USE AND COULD REDUSE OR IN SOME CASES, VOID YOUR WARRANTY COVERAGE.

Coach-Net®
RV Technical & Roadside Assistance

EMERGENCY ROADSIDE ASSISTANCE SERVICE

WHEN YOU TAKE DELIVERY OF YOUR NEW PALOMINO RV CAMPER, YOU ARE PROVIDED WITH AN EMERGENCY ROADSIDE ASSISTANCE SERVICE, FREE! WE'VE TEAMED UP WITH THE LARGEST RV EMERGENCY ROADSIDE ASSISTANCE COMPANY IN THE COUNTRY TO GIVE YOU IMMEDIATE ACCESS TO FAST, DEPENDABLE SERVICE WHEN AND WHERE YOU NEED IT. THIS IS A COMPREHENSIVE EMERGENCY ROADSIDE SERVICE THAT IS AVAILABLE TO YOU AROUND THE CLOCK. FOR FURTHER DETAILS REGARDING HOW TO ACCESS YOUR PALOMINO RV EMERGENCY ROADSIDE ASSISTANCE AND PRODUCT SUPPORT, PLEASE CALL 1-877-801-0333 OR SEE THE BROCHURE INFORMATION LOCATED IN THE BACK OF THIS MANUAL.



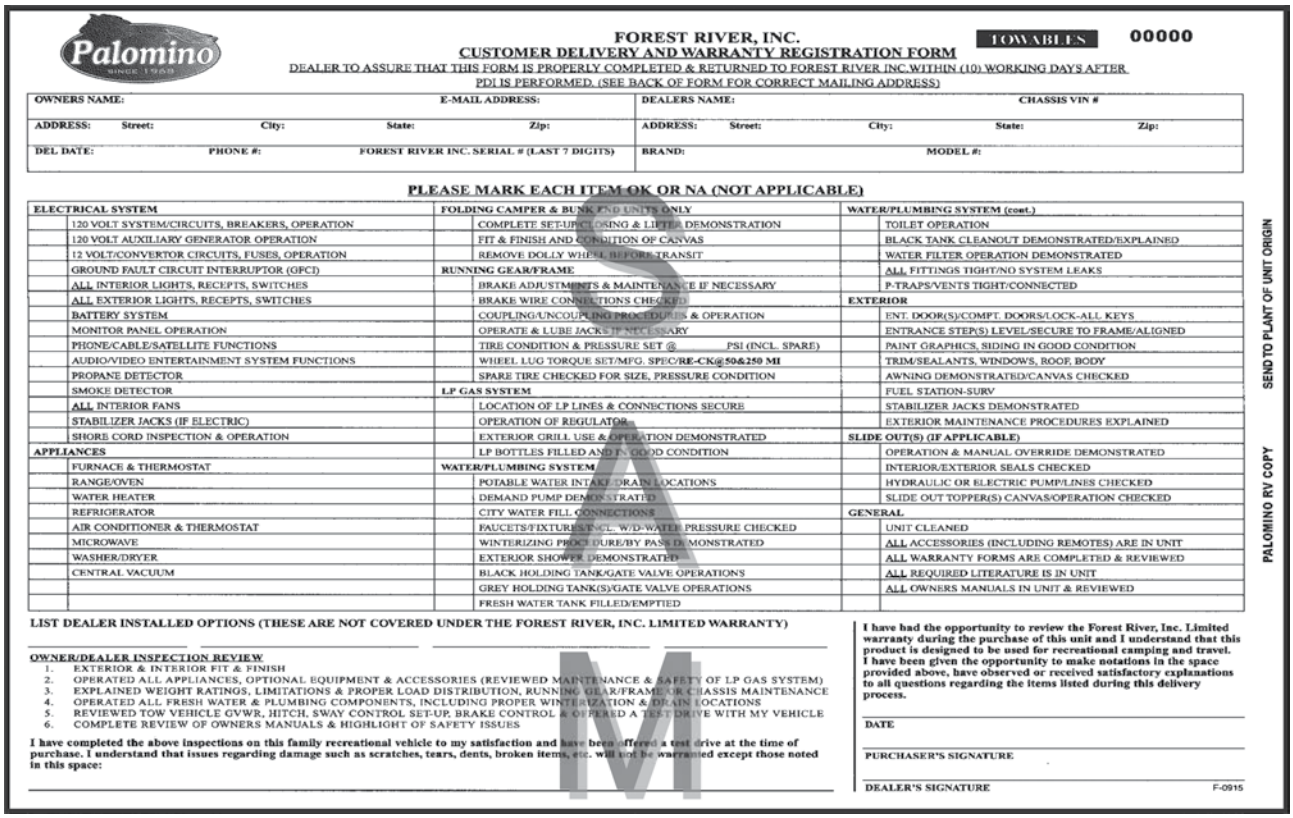
THE FOLLOWING IS ADDED AS A REQUIREMENT OF THE NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA).

IF YOU BELIEVE THAT YOUR VEHICLE HAS A DEFECT WHICH COULD CAUSE A CRASH OR COULD CAUSE INJURY OR DEATH, YOU SHOULD IMMEDIATELY INFORM THE NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION (NHTSA) IN ADDITION TO NOTIFYING THE MANUFACTURER.

IF NHTSA RECEIVES SIMILAR COMPLAINTS, IT MAY OPEN AN INVESTIGATION AND IF IT FINDS THAT A SAFETY DEFECT EXISTS IN A GROUP OF VEHICLES, IT MAY ORDER A RECALL AND REMEDY CAMPAIGN. HOWEVER, NHTSA CANNOT BECOME INVOLVED IN INDIVIDUAL PROBLEMS BETWEEN YOU, YOUR DEALER, OR THE MANUFACTURER.

TO CONTACT NHTSA, YOU MAY EITHER CALL THE AUTO SAFETY HOT LINE, TOLL-FREE AT 1-800 424-9393 (OR 366-0123 IN WASHINGTON, D.C. 2059YOU CAN ALSO OBTAIN ADDITIONAL INFORMATION ABOUT VEHICLE SAFETY FROM THE HOTLINE.

Palomino Warranty Registration Form



FOREST RIVER, INC. TOWABLES 00000

CUSTOMER DELIVERY AND WARRANTY REGISTRATION FORM

DEALER TO ASSURE THAT THIS FORM IS PROPERLY COMPLETED & RETURNED TO FOREST RIVER INC.WITHIN (10) WORKING DAYS AFTER PDI IS PERFORMED. (SEE BACK OF FORM FOR CORRECT MAILING ADDRESS)

OWNERS NAME:	E-MAIL ADDRESS:	DEALERS NAME:	CHASSIS VIN #
ADDRESS: Street: City: State: Zip:		ADDRESS: Street: City: State: Zip:	
DEL DATE: PHONE #: FOREST RIVER INC. SERIAL # (LAST 7 DIGITS)		BRAND: MODEL #:	

PLEASE MARK EACH ITEM OK OR NA (NOT APPLICABLE)

ELECTRICAL SYSTEM		**FOLDING CAMPER & BUNK END UNITS ONLY**		**WATER/PLUMBING SYSTEM (cont.)**	
	120 VOLT SYSTEM/CIRCUITS, BREAKERS, OPERATION		COMPLETE SET-UP/CLOSING & LIFTER DEMONSTRATION		TOILET OPERATION
	120 VOLT AUXILIARY GENERATOR OPERATION		FIT & FINISH AND CONDITION OF CANVAS		BLACK TANK CLEANOUT DEMONSTRATED/EXPLAINED
	12 VOLT/CONVERTOR CIRCUITS, FUSES, OPERATION		REMOVE DOLLY WHEEL BEFORE TRANSIT		WATER FILTER OPERATION DEMONSTRATED
	GROUND FAULT CIRCUIT INTERRUPTOR (GFCI)	**RUNNING GEAR/FRAME**			ALL FITTINGS TIGHT/NO SYSTEM LEAKS
	ALL INTERIOR LIGHTS, RECEPTS, SWITCHES		BRAKE ADJUSTMENTS & MAINTENANCE IF NECESSARY		P-TRAPS/VENTS TIGHT/CONNECTED
	ALL EXTERIOR LIGHTS, RECEPTS, SWITCHES		BRAKE WIRE CONNECTIONS CHECKED	**EXTERIOR**	
	BATTERY SYSTEM		COUPLING/UNCOUPLING PROCEDURES & OPERATION		ENT. DOOR(S)/COMPT. DOORS/LOCK-ALL KEYS
	MONITOR PANEL OPERATION		OPERATE & LUBE JACKS IF NECESSARY		ENTRANCE STEP(S) LEVEL/SECURE TO FRAME/ALIGNED
	PHONE/CABLE/SATELLITE FUNCTIONS		TIRE CONDITION & PRESSURE SET @ PSI (INCL. SPARE)		PAINT GRAPHICS, SIDING IN GOOD CONDITION
	AUDIO/VIDEO ENTERTAINMENT SYSTEM FUNCTIONS		WHEEL LUG TORQUE SET/MFG. SPEC/**RE-CK@50&250 MI**		TRIM/SEALANTS, WINDOWS, ROOF, BODY
	PROPANE DETECTOR		SPARE TIRE CHECKED FOR SIZE, PRESSURE CONDITION		AWNING DEMONSTRATED/CANVAS CHECKED
	SMOKE DETECTOR	**LP GAS SYSTEM**			FUEL STATION-SURV
	ALL INTERIOR FANS		LOCATION OF LP LINES & CONNECTIONS SECURE		STABILIZER JACKS DEMONSTRATED
	STABILIZER JACKS (IF ELECTRIC)		OPERATION OF REGULATOR		EXTERIOR MAINTENANCE PROCEDURES EXPLAINED
	SHORE CORD INSPECTION & OPERATION		EXTERIOR GRILL USE & OPERATION DEMONSTRATED	**SLIDE OUT(S) (IF APPLICABLE)**	
APPLIANCES			LP BOTTLES FILLED AND IN GOOD CONDITION		OPERATION & MANUAL OVERRIDE DEMONSTRATED
	FURNACE & THERMOSTAT	**WATER/PLUMBING SYSTEM**			INTERIOR/EXTERIOR SEALS CHECKED
	RANGE/OVEN		POTABLE WATER INTAKE/DRAIN LOCATIONS		HYDRAULIC OR ELECTRIC PUMP/LINES CHECKED
	WATER HEATER		DEMAND PUMP DEMONSTRATED		SLIDE OUT TOPPER(S) CANVAS/OPERATION CHECKED
	REFRIGERATOR		CITY WATER FILL CONNECTIONS	**GENERAL**	
	AIR CONDITIONER & THERMOSTAT		FAUCETS/FIXTURES/INCL. W/D-WATER PRESSURE CHECKED		UNIT CLEANED
	MICROWAVE		WINTERIZING PROCEDURE/BY PASS DEMONSTRATED		ALL ACCESSORIES (INCLUDING REMOTES) ARE IN UNIT
	WASHER/DRYER		EXTERIOR SHOWER DEMONSTRATED		ALL WARRANTY FORMS ARE COMPLETED & REVIEWED
	CENTRAL VACUUM		BLACK HOLDING TANK/GATE VALVE OPERATIONS		ALL REQUIRED LITERATURE IS IN UNIT
			GREY HOLDING TANK(S)/GATE VALVE OPERATIONS		ALL OWNERS MANUALS IN UNIT & REVIEWED
			FRESH WATER TANK FILLED/EMPTIED		

LIST DEALER INSTALLED OPTIONS (THESE ARE NOT COVERED UNDER THE FOREST RIVER, INC. LIMITED WARRANTY)

OWNER/DEALER INSPECTION REVIEW

1. EXTERIOR & INTERIOR FIT & FINISH
2. OPERATED ALL APPLIANCES, OPTIONAL EQUIPMENT & ACCESSORIES (REVIEWED MAINTENANCE & SAFETY OF LP GAS SYSTEM)
3. EXPLAINED WEIGHT RATINGS, LIMITATIONS & PROPER LOAD DISTRIBUTION, RUNNING GEAR/FRAME OR CHASSIS MAINTENANCE
4. OPERATED ALL FRESH WATER & PLUMBING COMPONENTS, INCLUDING PROPER WINTERIZATION & DRAIN LOCATIONS
5. REVIEWED TOW VEHICLE GVWR, HITCH, SWAY CONTROL SET-UP, BRAKE CONTROL & OFFERED A TEST DRIVE WITH MY VEHICLE
6. COMPLETE REVIEW OF OWNERS MANUALS & HIGHLIGHT OF SAFETY ISSUES

I have completed the above inspections on this family recreational vehicle to my satisfaction and have been offered a test drive at the time of purchase. I understand that issues regarding damage such as scratches, tears, dents, broken items, etc. will not be warranted except those noted in this space:

I have had the opportunity to review the Forest River, Inc. Limited warranty during the purchase of this unit and I understand that this product is designed to be used for recreational camping and travel. I have been given the opportunity to make notations in the space provided above, have observed or received satisfactory explanations to all questions regarding the items listed during this delivery process.

DATE

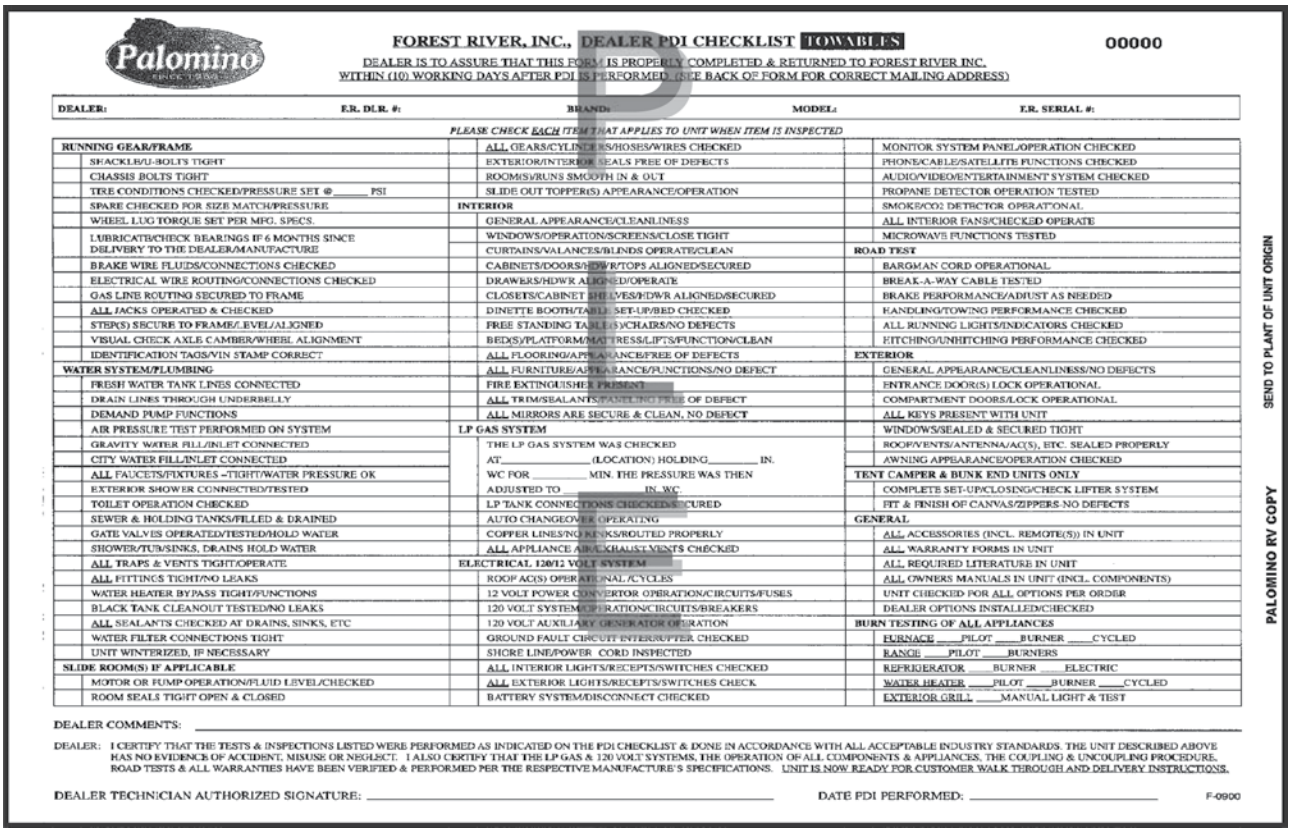
PURCHASER'S SIGNATURE

DEALER'S SIGNATURE F-0915

SEND TO PLANT OF UNIT ORIGIN

PALOMINO RV COPY

Palomino Pre-Delivery Inspection Form



FOREST RIVER, INC., DEALER PDI CHECKLIST TOWABLES 00000

DEALER IS TO ASSURE THAT THIS FORM IS PROPERLY COMPLETED & RETURNED TO FOREST RIVER INC. WITHIN (10) WORKING DAYS AFTER PDI IS PERFORMED. (SEE BACK OF FORM FOR CORRECT MAILING ADDRESS)

DEALER:	F.R. DLR. #:	BRAND:	MODEL:	F.R. SERIAL #:

PLEASE CHECK EACH ITEM THAT APPLIES TO UNIT WHEN ITEM IS INSPECTED

RUNNING GEAR/FRAME			ALL GEARS/CYLINDERS/HOSES/WIRES CHECKED		MONITOR SYSTEM PANEL/OPERATION CHECKED
	SHACKLE/U-BOLTS TIGHT		EXTERIOR/INTERIOR SEALS FREE OF DEFECTS		PHONE/CABLE/SATELLITE FUNCTIONS CHECKED
	CHASSIS BOLTS TIGHT		ROOM(S)/RUNS SMOOTH IN & OUT		AUDIO/VIDEO/ENTERTAINMENT SYSTEM CHECKED
	TIRE CONDITIONS CHECKED/PRESSURE SET @ PSI		SLIDE OUT TOPPER(S) APPEARANCE/OPERATION		PROPANE DETECTOR OPERATION TESTED
	SPARE CHECKED FOR SIZE MATCH/PRESSURE	**INTERIOR**			SMOKE/CO2 DETECTOR OPERATIONAL
	WHEEL LUG TORQUE SET PER MFG. SPECS.		GENERAL APPEARANCE/CLEANLINESS		ALL INTERIOR FANS/CHECKED OPERATE
	LUBRICATE/CHECK BEARINGS IF 6 MONTHS SINCE DELIVERY TO THE DEALER/MANUFACTURE		WINDOWS/OPERATION/SCREENS/CLOSE TIGHT		MICROWAVE FUNCTIONS TESTED
			CURTAINS/VALANCES/BLINDS OPERATE/CLEAN	**ROAD TEST**	
	BRAKE WIRE PLUGS/CONNECTIONS CHECKED		CABINETS/DOORS/HDWR/TOPS ALIGNED/SECURED		BARGMAN CORD OPERATIONAL
	ELECTRICAL WIRE ROUTING/CONNECTIONS CHECKED		DRAWERS/HDWR ALIGNED/OPERATE		BREAK-A-WAY CABLE TESTED
	GAS LINE ROUTING SECURED TO FRAME		CLOSETS/CABINET SHELVES/HDWR ALIGNED/SECURED		BRAKE PERFORMANCE/ADJUST AS NEEDED
	ALL JACKS OPERATED & CHECKED		DINETTE BOOTH/TABLE SET-UP/BED CHECKED		HANDLING/TOWING PERFORMANCE CHECKED
	STEP(S) SECURE TO FRAME/LEVEL/ALIGNED		FREE STANDING TABLE(S)/CHAIRS/NO DEFECTS		ALL RUNNING LIGHTS/INDICATORS CHECKED
	VISUAL CHECK AXLE CAMBER/WHEEL ALIGNMENT		BED(S)/PLATFORM/MATTRESS/LIFTS/FUNCTION/CLEAN		FITCHING/UNHITCHING PERFORMANCE CHECKED
	IDENTIFICATION TAGS/VIN STAMP CORRECT		ALL FLOORING/APPEARANCE/FREE OF DEFECTS	**EXTERIOR**	
WATER SYSTEM/PLUMBING			ALL FURNITURE/APPEARANCE/FUNCTIONS/NO DEFECT		GENERAL APPEARANCE/CLEANLINESS/NO DEFECTS
	FRESH WATER TANK LINES CONNECTED		FIRE EXTINGUISHER PRESENT		ENTRANCE DOOR(S) LOCK OPERATIONAL
	DRAIN LINES THROUGH UNDERBELLY		ALL TRIM/SEALANTS/PANELING FREE OF DEFECT		COMPARTMENT DOORS/LOCK OPERATIONAL
	DEMAND PUMP FUNCTIONS		ALL MIRRORS ARE SECURE & CLEAN, NO DEFECT		ALL KEYS PRESENT WITH UNIT
	AIR PRESSURE TEST PERFORMED ON SYSTEM	**LP GAS SYSTEM**			WINDOWS/SEALED & SECURED TIGHT
	GRAVITY WATER FILL/INLET CONNECTED		THE LP GAS SYSTEM WAS CHECKED		ROOF/VENTS/ANTENNA/AC(S), ETC. SEALED PROPERLY
	CITY WATER FILL/INLET CONNECTED		AT (LOCATION) HOLDING IN.		AWNING APPEARANCE/OPERATION CHECKED
	ALL FAUCETS/FIXTURES –TIGHT/WATER PRESSURE OK		WC FOR MIN. THE PRESSURE WAS THEN	**TENT CAMPER & BUNK END UNITS ONLY**	
	EXTERIOR SHOWER CONNECTED/TESTED		ADJUSTED TO IN. WC		COMPLETE SET-UP/CLOSING/CHECK LIFTER SYSTEM
	TOILET OPERATION CHECKED		LP TANK CONNECTIONS CHECKED/SECURED		FIT & FINISH OF CANVAS/ZIPPERS-NO DEFECTS
	SEWER & HOLDING TANKS/FILLED & DRAINED		AUTO CHANGEOVER OPERATING	**GENERAL**	
	GATE VALVES OPERATED/TESTED/HOLD WATER		COPPER LINES/NO KINKS/ROUTED PROPERLY		ALL ACCESSORIES (INCL. REMOTE(S)) IN UNIT
	SHOWER/TUB/SINKS, DRAINS HOLD WATER		ALL APPLIANCE AIR EXHAUST VENTS CHECKED		ALL WARRANTY FORMS IN UNIT
	ALL TRAPS & VENTS TIGHT/OPERATE	**ELECTRICAL 120/12 VOLT SYSTEM**			ALL REQUIRED LITERATURE IN UNIT
	ALL FITTINGS TIGHT/NO LEAKS		ROOF AC(S) OPERATIONAL/CYCLES		ALL OWNERS MANUALS IN UNIT (INCL. COMPONENTS)
	WATER HEATER BYPASS TIGHT/FUNCTIONS		12 VOLT POWER CONVERTOR OPERATION/CIRCUITS/FUSES		UNIT CHECKED FOR ALL OPTIONS PER ORDER
	BLACK TANK CLEANOUT TESTED/NO LEAKS		120 VOLT SYSTEM/OPERATION/CIRCUITS/BREAKERS		DEALER OPTIONS INSTALLED/CHECKED
	ALL SEALANTS CHECKED AT DRAINS, SINKS, ETC		120 VOLT AUXILIARY GENERATOR OPERATION	**BURN TESTING OF ALL APPLIANCES**	
	WATER FILTER CONNECTIONS TIGHT		GROUND FAULT CIRCUIT INTERRUPTER CHECKED		FURNACE PILOT BURNER CYCLED
	UNIT WINTERIZED, IF NECESSARY		SHORE LINE/POWER CORD INSPECTED		RANGE PILOT BURNERS
SLIDE ROOM(S) IF APPLICABLE			ALL INTERIOR LIGHTS/RECEPTS/SWITCHES CHECKED		REFRIGERATOR BURNER ELECTRIC
	MOTOR OR PUMP OPERATION/FLUID LEVEL/CHECKED		ALL EXTERIOR LIGHTS/RECEPTS/SWITCHES CHECK		WATER HEATER PILOT BURNER CYCLED
	ROOM SEALS TIGHT OPEN & CLOSED		BATTERY SYSTEM/DISCONNECT CHECKED		EXTERIOR GRILL MANUAL LIGHT & TEST

DEALER COMMENTS:

DEALER: I CERTIFY THAT THE TESTS & INSPECTIONS LISTED WERE PERFORMED AS INDICATED ON THE PDI CHECKLIST & DONE IN ACCORDANCE WITH ALL ACCEPTABLE INDUSTRY STANDARDS. THE UNIT DESCRIBED ABOVE HAS NO EVIDENCE OF ACCIDENT, MISUSE OR NEGLECT. I ALSO CERTIFY THAT THE LP GAS & 120 VOLT SYSTEMS, THE OPERATION OF ALL COMPONENTS & APPLIANCES, THE COUPLING & UNCOUPLING PROCEDURE, ROAD TESTS & ALL WARRANTIES HAVE BEEN VERIFIED & PERFORMED PER THE RESPECTIVE MANUFACTURE'S SPECIFICATIONS. UNIT IS NOW READY FOR CUSTOMER WALK THROUGH AND DELIVERY INSTRUCTIONS.

DEALER TECHNICIAN AUTHORIZED SIGNATURE: DATE PDI PERFORMED: F-0900

SEND TO PLANT OF UNIT ORIGIN

PALOMINO RV COPY

Recreational Vehicle Serial Number, Decals and Data Plates

The recreational VIN, (vehicle identification number), label is mounted on the front lower roadside corner of your truck camper.

The VIN is a computer generated number based upon pertinent facts about your RV. For example:

4x4	S	BA	M	0	1	7	N	012345
1	2	3	4	5	6	7	8	9

1.) **WORLD IDENTIFIER:** (4x4 Forest River)

2.) **UNIT TYPE:** S-SLIDE IN TRUCK CAMPER

3.) **BRAND:**
BA-BRONCO, MA-MAVERICK, WK-WINTER CREEK

4.) **UNIT LENGTH:** A-24", B-26', C-27', D28', E-29, F-30', G-31', H-32', J-33', K-34, L-35', M-36', N-37',R 39',S-40', T-18', U-19', V-20',W-21', X-22', Y-23', Z-24'

5.) **NUMBER OF** AXLES: 0-None, 1-1Axle, 2-2 Axles

6.) **COMPUTER GENERATED DIGIT** (for security purposes)

7.) **MODEL YEAR:** T-1996, V-1997, W-1998, X-1999, Y-2000, 1-2001, 2-2002, 3-2003, 4-2004, 5-2005, 6-2006, 7-2007

8.) **PLANT LOCATIONS:**
N-1047 E. M86 West Colon, Mi. 49040

9.) **SEQUENTIAL SERIAL #**

IMPORTANT: Always give model, year and the V.I.N. (vehicle identification number) information when ordering parts. Also, we recommend that you keep a copy of that information separate from the truck camper in the event of theft or vandalism. You may be required to supply a copy of this information to the authorities.

A vehicle data card is also supplied with your recreational vehicle, listing manufacturer, model, and serial number information for the major factory installed appliances and accessories. A separate copy of this information could be useful to you not only in the event of theft, vandalism or disaster, but also when certain service functions may require it.

Decals and data plates placed throughout the recreational vehicle aid in its' safe and efficient oper-ation, others give service instructions. Read all decals, data and instruction plates before operating your recreational vehicle. If any decal, data or instruction plate is damaged, painted over or removed, it should be replaced immediately. Contact your Palomino RV dealer for further information.

SAFETY REGULATIONS FOR LP

Certain warnings are posted throughout your camper to provide information on LP gas safety. These warnings have been posted, not only because of the requirement to do so, but also as a constant reminder to all occupants of the camper, including guests, to exercise proper caution when using or being around LP gas appliances and equipment. We are listing them here so you may study them and be sure that you, your family and your guests, understand and follow them.

⚠WARNING LP GAS CONTAINERS SHALL NOT BE PLACED OR STORED INSIDE THE LIVING AREA OF A RECREATIONAL VEHICLE. LP GAS CONTAINERS ARE EQUIPPED WITSAFETY DEVICES WHICH RELIEVE EXCESSIVE PRESSURE BY DISCHARGING GAS INTO THE ATMOSPHERE.

⚠WARNING IT IS NOT SAFE TO USE COOKING APPLIANCES FOR COMFORT HEATING.

MANUFACTURED BY / FABRIQUE PAR: DATE

GVWR / PNBV KG (LB)
GAWR (EACH AXLE) PNBE (CHAQUE ESSIEU) KG(LB) TIRES / PNEU
RIMS / JANTE

COLD INFL. PRESS. / PRESS. DE GONFL. A FROID KPA (PSI / LPC) ☐SINGLE ☐DUAL

THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE. THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE.

CE VEHICULE EST CONFORME A TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU REGLEMENT SUR LA SECURITE DES VEHICULES AUTOMOBILES DU CANADA EN VIGUEUR A LA DATE DE SA FABRICATION.

V.I.N. / N.I.V.: TYPE/TRAILER TRA/REM FD-306 REV A

Recreational Vehicle Serial Number Label

'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Cooking appliances need fresh air for safe operation. Before operation:

1.) Open overhead vent or turn on exhaust fan, **AND**

2.) Open a window

A warning label is located in the cooking area to remind you to provide an adequate supply of fresh air for combustion. Unlike homes, the amount of oxygen supply is limited due to the size of the camper, and proper ventilation when using the cooking appliance(s) will help avoid dangers of fire, asphyxiation, or carbon monoxide poisoning.

⚠WARNING IT IS ESPECIALLY IMPORTANT THAT COOKING APPLIANCES NOT BE USED FOR COMFORT HEATING AS THE DANGER OF ASPHYXIATION AND/OR CARBON MONOXIDE POISONING IS GREATER WHEN THE APPLIANCE IS USED FOR PROLONGED PERIODS OF TIME.

⚠WARNING DO NOT STORE LP GAS CONTAINERS, GASOLINE, OR OTHER FLAMMABLE LIQUIDS INSIDE THE VEHICLE AS A FIRE OR EXPLOSION MAY RESULT.

FIRE SAFETY

Bright Idea

Fire safety is an important part of owning a truck camper. The following basic rules of fire prevention can help eliminate the possibility of a fire.

1.) Never store flammable liquids inside the truck camper.

2.) Never leave cooking food unattended.

3.) Never smoke in bed and always use an ashtray.

4.) Never allow children to play with LP gas or electrical equipment.

5.) Never use an open flame as a flashlight.

6.) Immediately repair or replace damaged wiring and electrical components.

7.) Never overload electrical circuits.

8.) Locate any LP leaks and have them repaired immediately.

9.) Keep cooking surfaces clean and free from debris.

10.) Don't allow rubbish to accumulate.

11.) Never clean with a flammable substance.

12.) Spray fabrics annually with a flame retardant.

SAFETY TIPS

⚠WARNING BE SURE THAT EVERYONE IN YOUR CAMPER IS FAMILIAR WITH THE LOCATION OF ALL EXITS, INCLUDING EXIT WINDOWS.

⚠WARNING BE SURE THAT EVERYONE IN YOUR CAMPER IS FAMILIAR WITH THE OPERATION AND LOCATION OF FIRE EXTINGUISHERS.

EXIT EVACUATE EVERYONE FROM THE CAMPER IMMEDIATELY.

DO NOT ATTEMPT TO USE WATER TO PUT OUT A FIRE.

Water can spread some types of fire and electrocution is possible. Get everyone outside, then decide if you should attempt to extinguish the fire. If it is a large fire or a chemical fire, DO NOT HESITATE! Leave the vehicle immediately and call the fire department.

A WARNING LABEL HAS BEEN LOCATED NEAR THE LP GAS CONTAINER. THIS LABEL READS:

⚠WARNING DO NOT FILL CONTAINER(S) TO MORE THAN 80 PERCENT CAPACITY

Over filling the LP gas container can result in uncontrolled gas flow which can cause fire or explosion. A properly filled LP tank will contain approximately 80 percent of its volume as liquid LP gas. An 80% automatic shut-off valve has been installed on the LP gas tank which will automatically prevent further filling when the gas volume has reached 80 percent of tank capacity.

DANGER THE FOLLOWING LABEL HAS BEEN PLACED IN THE VEHICLE NEAR THE RANGE:

IF YOU SMELL GAS:

- Extinguish any open flames, pilot lights and all smoking materials.
- **DO NOT** touch electrical switches.
- Shut off the gas supply at the tank valve(s) or gas supply connection.
- Open doors and other ventilating openings.

DANGER! Indicates a hazardous situation which, if not avoided, will result in death or serious injury
'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

- **DO NOT** use the range hood.
- Leave the area until the odor clears.
- Have the LP system checked and leakage source corrected before using again.

⚠WARNING LP GAS REGULATORS MUST ALWAYS BE INSTALLED WITH THE DIAPHRAGM VENT FACING DOWNWARD. REGULATORS THAT ARE NOT IN COMPARTMENTS HAVE BEEN EQUIPPED WITH A PROTECTIVE COVER. BE SURE THAT THE REGULATOR VENT FACES DOWNWARD AND THAT THE COVER IS KEPT IN PLACE TO MINIMIZE VENT BLOCKAGE WHICH COULD RESULT IN EXCESSIVE GAS PRESSURE, CAUSING A FIRE OR AN EXPLOSION.

⚠WARNING PORTABLE FUEL BURNING EQUIPMENT INCLUDING WOOD OR CHARCOAL BURNING GRILLS AND STOVES SHALL NOT BE USED INSIDE THE CAMPER. DOING SO MAY CAUSE CARBON MONOXIDE POISONING, FIRE OR ASPHYXIATION.

If You Decide it is Safe to Fight a Fire with an Extinguisher:

- Remove the tamper tape which covers the discharge push button, (do not shake.)
- Hold it upright and stand six to ten feet from the fire, with a clear path to an exit.
- Press the button down completely, aiming at the base of the fire and spray with quick side to side sweeping motion.

TIP:

Use the **'PASS'** method. Familiarize yourself and all occupants with this procedure:

- **P**ull the pin (some extinguishers may have a cartridge you need to push)
- **A**im the nozzle at the base of the fire.
- **S**queeze the handle to release the extinguishing agent.
- **S**pray the base of the fire. (If you aim at the flames, you won't extinguish the fire.)

CAUTION Avoid inhaling the dry chemicals from the fire extinguisher. Although non-toxic, they can cause temporary irritation. When the fire is out, clean the area as soon as possible. The dry chemicals may cause damage to surface areas.

DO NOT USE WATER TO EXTINGUISH A FIRE

Water can spread some types of fire and electrocution is possible.

UNDERWRITER LABORATORIES CLASSIFY FIRES INTO THREE TYPES:

Class A: Fires in wood, paper, fabric, rubber and certain plastics.

Class B: Flammable liquids such as grease, cooking oils, gasoline or kerosene.

Class C: Electrical fires started from live electrical wires, shorted motors/switches.

NOTE: The fire extinguisher provided with your truck camper is a chemical type suitable for extinguishing SMALL fires of the class B or C type.

⚠WARNING EXTINGUISHERS ARE DESIGNED TO PUT OUT A FIRE IN ITS' INITIAL STAGE, NOT WHEN IT'S BLAZING OUT OF CONTROL. IF A FIRE CAN NOT BE APPROACHED WITHIN 10 FEET WITHOUT RISK OF CAUSING PERSONAL HARM, IMMEDIATELY EVACUATE THE CAMPER AND CALL 911.

'CAUTION' indicates a hazardous situation which, if not avoided, could result in vehicle damage or minor to moderate injury.
DANGER! Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

WEIGHING YOUR TRUCK

- The **truck** must be weighed with all anticipated occupants and full of fuel.
- Drive onto the scales and note the weight of the total truck.
- Pull forward until the front axle is off the scale and get the weight on the rear axle.
- Subtract the weight on the rear axle from the total truck weight to get the weight on the front axle.

WEIGHING YOUR CAMPER (FULLY LOADED)

- With the **camper** fully loaded with LP and water, (if you intend to travel with water), pull onto the scales as before and note the combined weight of the truck and camper.
- Pull forward until the front axle is off the scale and get the weight on the rear axle.
- Subtract the weight on the rear axle from the total truck and camper weight to arrive at the weight on the front axle.
- Subtract the truck weight from the combined truck and camper weight for each axle. This amount should be less than the truck manufacturer's GAWR rating, (Gross Axle Weight Rating). If you are over the GAWR rating, you will need to remove or shift weight accordingly.
- Once the weight is less than the GAWR, you need to weigh each individual wheel to ensure your camper is evenly loaded on each side.
- Again pull on to the scales, but with only the right front tire on the scales. Pull forward and note the weight of the right rear tire. Do the same for the left rear tire. Follow the same procedure for the front tire. Take the GAWR rating of the rear axle and divide by Do the same for the front.This is the GAWR for each axle end.
- Now subtract the individual wheel weights from the individual GAWR for each wheel. If the amount is less, you are within the GAWR for that axle end. If the amount is more, you are over the GAWR for that axle end and you will need to adjust how your camper is loaded to bring the weight down within the GAWR.

Look in your Yellow Pages under gravel pits, storage companies or recycling facilities to find certified scales. Call in advance to determine if they offer public weighing service, their fees if any, and hours of operation.

NOTE: CARGO CAN BE ADDED TO THE VEHICLE UP TO THE MAXIMUM WEIGHT SPECIFIED ON THE WEIGHT LABEL. THE COMBINED WEIGHT OF THE CAMPER AND ITS' CARGO CAN NOT EXCEED THE STATED GVWR.

GVWR (Gross Vehicle Weight Rating) - the maximum permissible weight of the fully loaded camper.

GAWR (Gross Axle Weight Rating) - the allowable weight, including cargo, that can be safely supported by each axle.

UVW (Unloaded Vehicle Weight) - the weight of the camper as manufactured. If applicable, it also includes full generator fluids including fuel, engine oil and coolants.

CCC (Cargo Carrying Capacity) - equal to GVWR minus each of the following:

- UVW
- Full fresh water (potable water-used for drinking and cooking) weight, full water heater and full LP gas weight.

WEIGHT CERTIFICATION LABEL

The weight certification label indicates the gross axle weight (GAWR). This is the most weight the fully loaded camper can weigh.

TRAILER WEIGHT INFORMATION

VIN OR SERIAL NUMBER

GVWR (GROSS VEHICLE WEIGHT RATING) IS THE MAXIMUM PERMISSIBLE WEIGHT OF THIS TRAILER WHEN FULLY LOADED. IT INCLUDES ALL WEIGHT AT THE TRAILER AXLE(S) AND TONGUE OR PIN.

UVW (UNLOADED VEHICLE WEIGHT) IS THE WEIGHT OF THIS TRAILER AS MANUFACTURED AT THE FACTORY. IT INCLUDES ALL WEIGHT AT THE TRAILER AXLE(S) AND TONGUE OR PIN. IF APPLICABLE, IT ALSO INCLUDES FULL GENERATOR FLUIDS, INCLUDING FUEL, ENGINE OIL AND COOLANTS.

CCC (CARGO CARRYING CAPACITY) IS EQUAL TO GVWR MINUS EACH OF THE FOLLOWING: UVW, FULL FRESH (POTABLE) WATER WEIGHT (INCLUDING WATER HEATER), FULL PROPANE WEIGHT.

CARGO CARRYING CAPACITY (CCC) COMPUTATION	POUNDS	KILOGRAMS
GVWR		
MINUS UVW		
MINUS FRESH WATER WEIGHT OF GALLONS @ 8.3 LB/GAL		
MINUS PROPANE WEIGHT OF GALLONS @ 4.2 LB/GAL		
= CCC FOR THIS TRAILER*		

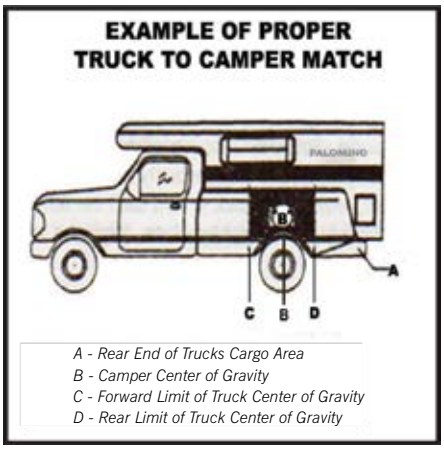
*DEALER INSTALLED EQUIPMENT WILL REDUCE CCC

CONSULT OWNER MANUAL(S) FOR SPECIFIC WEIGHING INSTRUCTIONS AND TOWING GUIDELINES.

SAMPLE

MATCHING CAMPER AND TRUCK

Selecting the right combination requires understanding a few guidelines. Your Palomino RV dealer can be a valuable source of information when matching a camper to your truck.


EXAMPLE OF PROPER
TRUCK TO CAMPER MATCH
A
C
B
D
A - Rear End of Trucks Cargo Area
B - Camper Center of Gravity
C - Forward Limit of Truck Center of Gravity
D - Rear Limit of Truck Center of Gravity

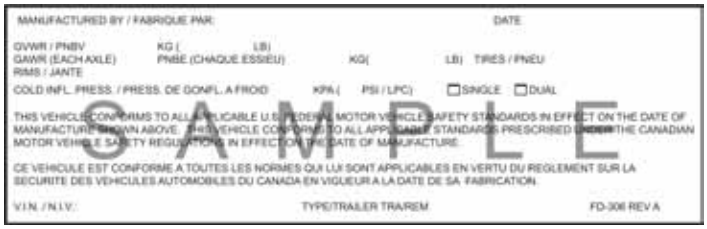
The truck bed is mounted to the frame of the truck with mounts which allow for some movement. It is important to allow enough clearance between your truck and camper to prevent damage due to normal racking, twisting and bouncing while driving.

The cabover of the camper should never be more than 1½" above the tallest point of the cab of the truck, including cab marker lights. Also, be sure there is a minimum of ¼" clearance between the truck bed side rails and the camper wing.

Some truck models have a tapered bed, meaning the bed depth is different between the front and rear. This can make the camper look tilted (front higher than the rear) along the bed of the truck.

It may be necessary to place a bed mat in the truck bed to raise the camper to the minimum clearance requirements. There must also be a minimum of ?" between where the truck and camper meet at the back of the truck taillight. Adding a spacer at the front of the camper or in the front of the truck bed can help ensure proper clearance. Refer to your Palomino RV dealer for proper installation.

Federal Certification Label


MANUFACTURED BY / FABRIQUE PAR:
DATE
GVWR / PNBV
GAWR (EACH AXLE)
PNBE (CHAQUE ESSIEU)
RIMS / JANTE
COLD INFL. PRESS. / PRESS. DE GONFL. A FROID
SINGLE
DUAL
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE. THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE.
CE VEHICULE EST CONFORME A TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU REGLEMENT SUR LA SECURITE DES VEHICULES AUTOMOBILES DU CANADA EN VIGUEUR A LA DATE DE SA FABRICATION.
V.I.N. / N.I.V.:
TYPE/TRAILER TRA/REM
FD-308 REV A
SAMPLE

Federal Certification (ID) Label

A Federal Certification Label is required by law on all trucks. It is usually located on the driver side door frame. It lists the Gross Vehicle Weight Rating (GVWR, the maximum weight at which the vehicle may be operated). It also provides a Gross Axle Weight Rating (GAWR), the maximum weight allowed for each axle. The GAWR, divided by two, is the maximum axle rating for each end of an axle.

TRUCK PAYLOAD

Truck 'payload' is the amount of weight a truck is designed to carry. Campers are considered part of the trucks 'payload'. New trucks have their payload capacity posted in the glove box or on a specification sheet supplied with the truck owner's manual. Trucks that have many options and/or a 4-wheel drive option have less payload. To calculate payload the truck manufacturers assume all seat positions are filled with persons weighing 150 pounds each.

NOTE: IN ORDER TO MAINTAIN PROPER WEIGHT AND BALANCE, REMEMBER TO ADD THE WEIGHT OF ALL ITEMS INSTALLED AFTER MANUFACTURE, AS WELL AS ITEMS PURCHASED ON YOUR TRIP, TO THE CARGO WEIGHT OF YOUR CAMPER.

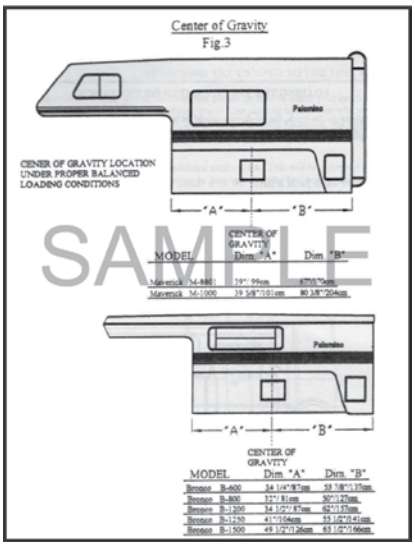
OPTIONAL WEIGHTS

In addition to occupant weight, optional equipment and dealer installed accessories will change the weight load. Below is a sample of weights for items that may be installed in your unit, or installed at a later date.

3 Cu. Ft. Refrigerator	63 lbs./29 KG
2 Cu. Ft. Refrigerator	46 lbs./21 KG
Furnace	24 lbs./11 KG
Air Conditioner	93 lbs./42 KG
Water Heater with pump	20 lbs./9 KG
4 Corner Jack Upgrade	38 lbs./17 KG
Microwave Oven	38 lbs./17 KG
3 Burner Range with Oven	29 lbs./13 KG
8 Ft. Side Awning.	25 lbs./11 KG
9 Ft. Side Awning.	27 lbs./12 KG
Rear Mount Awning	22 lbs./10 KG

CENTER OF GRAVITY

Truck manufacturers are also required to provide a 'center of gravity zone' for camper loading. To determine if your truck/camper combination is within the proper center of gravity limits, follow these three steps:



- Find the center of gravity for your model type.
- Determine the recommended center of gravity zone for your truck, as listed in your truck owner's manual. If you cannot find this information, contact the nearest manufacturers representative for your truck. The zone is normally measured from the rear or back of the cargo area.
- In a properly matched combination of truck and camper, point 'B' (camper center of gravity) will fall within points 'C 'and 'D', (truck's center of gravity zone).

NOTE: REMEMBER THAT INSTALLED OPTIONS AND THE STORAGE OF PERSONAL ITEMS WILL AFFECT THE LISTED CENTER OF GRAVITY. CARE MUST BE TAKEN TO PROPERLY BALANCE THE CAMPER WHEN LOADING YOUR PERSONAL ITEMS.

ATTACHING THE CAMPER TO THE TRUCK

NOTE: ALWAYS KEEP THE FRONT OF THE CAMPER HIGHER THAN THE REAR. BEFORE LOADING THE CAMPER ONTO THE TRUCK, BE SURE TO ATTACH THE TIE-DOWNS TO THE TRUCK

1.) Extend each jack no more than 4" at once. Starting with the front jacks, keeping the camper level at all times.

Repeat this process until the camper clears the truck body bed by approximately 4".

2.) Slowly back truck under camper making sure to clear wheel wells and any structure or plumbing located below the living area. This may take more than one try.

3.) Continue backing until the truck is within a foot of loaded position. Stop and connect the 12-volt power cord to the 12-volt receptacle in the truck bed.

4.) Continue backing under the camper until the bumpers mounted on the crossbar in the truck bed lightly touch the front of the camper.

5.) Slowly lower both rear jacks, then front jacks until the camper is resting fully on the truck bed.

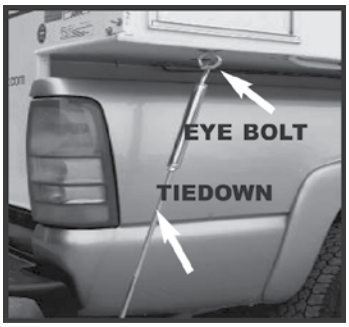
6.) Raise the jacks and secure in place according to the manufacturer's instructions.

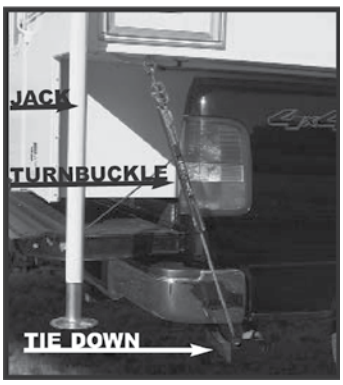
7.) Lift and swing front jacks inward (if equipped with swing out brackets).

8.) Secure the camper to the truck with turnbuckles. The front turnbuckles must be spring or shock loaded, while the rear should use solid turnbuckles. Install both the front and rear turnbuckles per manufacturer's instructions.

9.) Connect cabover strut (optional).

10.) Install crawl through boot (optional).





Bright Idea

SAFETY TIPS

1.) Never allow the camper to be occupied while it is being loaded or unloaded.

2.) Never raise the rear of the camper higher than the front of the camper.

3.) Be sure all tie-down devices and electrical devices are disconnected from the vehicle.

4.) Do not load the camper on a windy day. The amount of wind that is dangerous depends upon your exposure and the weight of the camper.

5.) Only store your camper on level ground.

NOTE: YOUR CAMPER MAY REQUIRE SHIMS UNDER THE REAR SKID BAR, EITHER ON THE LEFT OR THE RIGHT, ACCORDING TO HOW THE DOOR RESPONDS TO YOUR TRUCK. DO NOT ALTER THE DOOR OR DOORWAY.

TO LOWER CAMPER:

- Retract the rear jacks first so the camper is 4" lower in the rear than in the front.
- When the rear of the camper is lower than the front, press and hold the 'ALL JACKS' button to retract the jacks. Release the button when the camper is at the desired height.
- If the jacks continue to operate, push the control switch and the light will go out. The jacks should disengage. If they continue to operate, unplug the jack(s) from their exterior plug and contact your Palomino RV service center.

NOTE: WHEN OPERATING THE JACKS WITH A LOW 12V BATTERY, THE 'ALL JACKS' EXTEND AND RETRACT FEATURE MAY NOT WORK. IN THAT CASE, USE THE INDIVIDUAL JACK BUTTONS TO OPERATE THE JACK.

When operating the jacks by remote control, visually inspect all four jacks to ensure that they are responding properly and that you are following proper lifting or lowering camper procedures.

DO NOT over-extend or over-retract the jacks. The electric jack has an internal slip clutch to help prevent damage. If a clicking sound is heard, release switch. Continuing to hold the switch will cause undue wear on the slip clutch and/or cause damage to the motor.

REMOVING CAMPER FROM TRUCK

1.) Position the truck/camper combination on firm level ground. If needed use 12" sq., 3/4" plywood support pads under each jack to prevent sinking into the ground or asphalt.

2.) Disconnect and/or remove the following items:

a.) Crawl through boot
b.) Cabover struts
c.) Front and rear turnbuckles
d.) 12 volt camper power cord
e.) Rear view camera cord (optional)

3.) Using your remote control, operate all jacks together until the camper clears the truck bed by 4". If it is necessary to operate the jacks indibvidually. starting with the front jacks, extend the jacks no more than 4" at a time. Keep the camper as level as possible. Repeat the process until the camper has cleared the truck bed by approximately 4".

4.) Slowly drive the truck from under the camper until it clears the camper and the front overhang.

5.) Lower the camper with the rear jacks first, then lower the front jacks no more than 4" at a time.

NOTE: ALWAYS KEEP THE FRONT OF THE CAMPER SLIGHTLY HIGHER THAN THE REAR.

NOTE: DO NOT USE TALL SAWHORSES, CINDER BLOCKS, ETC TO SUPPORT THE CAMPER IN THE RAISED POSITION.

NOTE: DO NOT OCCUPY OR ENTER THE CAMPER WHILE IT IS IN A RAISED POSITION.

(THE MAVERICK AND THE WINTER CREEK ARE DESIGNED TO BE USED WHILE STANDING ON THE JACKS IN A LOWERED POSITION, WITHOUT DAMAGE. THE BRONCO WILL NEED ADDITIONAL SUPPORT.)

SAFETY TIPS for Attaching or Removing your Camper

- Keep children and animals away from the area when raising or lowering the camper. Use extreme caution to avoid any part of your body being under the camper during this process.
- Do not allow the camper to 'tilt' while raising it on the jacks as this could cause the jacks to buckle.
- Raise or lower the camper with the front either level or higher than the back to avoid weight transfer. Shifting weight may cause damage to the interior of the camper, the cargo, or to the jacks.
- Uneven load on the jacks can cause the slide room opening to twist or buckle.
- Use caution when loading and unloading the camper on a windy day. The amount of wind that is dangerous depends upon your exposure and the weight and size of the camper.

PACKING THE CAMPER

In addition to knowing the overall weight that can be safely loaded in or attached to the truck, you need to also keep in mind the weight of items you are storing in your camper. When loading the camper, store heavy gear first, keeping it on or close to the camper floor. Place heavy things far enough forward to keep the loaded camper's center of gravity within the zone recommended by the truck manufacturer. Store only light objects on high shelves. Distribute weight to obtain even side-to-side balance of the loaded camper. Secure loose items to prevent weight shifts that could affect the balance as well. Familiarize yourself with the correct process of distributing weight in the camper so even amounts of weight are placed on each truck axle. Proper weight distribution is required for driving stability and will ensure that the truck/camper is not rear, front or side heavy. Heavy weights placed at the rear end of the truck/camper may cause undesirable handling characteristics.

OVERLOAD PREVENTION

The most critical point about weighing a truck camper is that it must be weighed with everything on board as it will be when you're traveling. Therefore, you must weight the truck camper with all passengers, supplies, food, water, propane and the truck full of fuel. Water weighs approximately 8.3 lbs. per gallon and LP gas, 4.2 lbs. per gallon. Limiting your onboard water until you arrive at your destination will lower your total weight.

In addition to knowing the total weight, it is crucial to know the weight on each end of each axle. Until you know the axle weight, you won't be able to determine if the load is within the tire capacity, as well as whether or not the load is properly distributed.

Look for certified scales in your Yellow Pages under moving and storage companies, farm suppliers, gravel pits, recycling companies or commercial truck stops. Be sure to call in advance to determine whether the facility offers public weighing services, their hours of operation and any fees that might be involved.

ROOF STORAGE

Caution should be taken when loading heavy cargo on the roof. Any weight on the roof will affect the truck's center of gravity and handling. Listed below are some guidelines.

- Winter Creek & Maverick -200 lb. limit (no roof air conditioner installed)
- Winter Creek & Maverick -100 lb. limit (with roof air conditioner installed)
- Bronco -150 lb. limit (no roof air conditioner installed)
- Bronco - 50 lb. limit (with roof air conditioner installed)

NOTE: WHEN LOADING CARGO ON THE ROOF DO NOT BLOCK THE EMERGENCY EXIT ROOF VENT. NOTE: ALWAYS BE AWARE OF THE CAMPER'S OVERALL TRAVEL HEIGHT, INCLUDING AIR CONDITIONER, ANTENNA AND ANY CARGO ON ROOF.

AXLE WEIGHT

The correct way to be sure the camper weight is properly distributed is to determine the weight on each end of each axle.

⚠WARNING FAILURE TO PROPERLY MATCH CAMPER AND TRUCK CAN RESULT IN UNDESIRABLE HANDLING CHARACTERISTICS AND CREATE A SAFETY HAZARD.

DO NOT load your vehicle beyond its gross vehicle weight rating (GVWR) and/or gross axle weight ratings (GAWR). Both of these ratings are given on an identification label normally located on the driver's door panel.

'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

TIRES

Tires are available in a variety of load ratings and sizes. Bear in mind that the ultimate capacity of the truck is determined by the weakest link in the system. This could be the tires, wheels, suspension or brakes.The maximum ratings for tires is molded into the sidewall of the tire. The sidewall of the tire shows maximum and minimum inflation pressure for that load.

Be sure you also know the load and inflation pressure ratings for your wheels as well. Often, these are stamped on the inside of the wheel, but if not, consult your dealer. Never exceed the maximum load or inflation pressure of your tires.

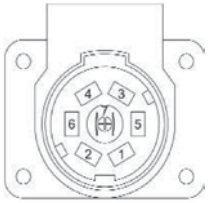
Driving on under-inflated tires can cause the tires to overheat, which leads to the breakdown of the tire's internal structure. Improper inflation also can reduce your ability to control your vehicle. Tire blowouts occur more frequently during summer months. Properly inflated tires last longer, run quieter, grip better, increase fuel mileage and safely support and control your vehicle.

Check your tire pressure once a month. Adjust cold inflation pressure every day that you travel, and each time before taking a trip with your truck and camper. Use a quality air pressure gauge to check the pressure. Do not under-inflate or over-inflate your tires. Inspect your tires for uneven or excessive wear. Look for bulges, cuts, or blisters on the sidewalls.

NOTE: INDIVIDUAL WHEEL POSITION WEIGHTS MUST NOT EXCEED THE MAXIMUM TIRE LOAD CAPACITY. MAXIMUM TIRE LOAD CAPACITY CAN ONLY BE ACHIEVED BY UTILIZING THE MAXIMUM ALLOWABLE PSI AS LISTED ON THE SIDEWALL OF THE TIRE.

ELECTRICAL CONNECTION TO TRUCK

Your Palomino RV camper comes equipped with a 12-volt electrical cord with a molded camper connector. The truck electrical connector will be installed by your Palomino RV Dealer, to your trucks' wiring system. With the wiring and connectors hooked-up, your truck will supply 12- volt DC power to charge your camper battery and provide power for the 12-volt power needs while the truck is operating.



1–14 AWG WHITE WIRE- CLEARANCE LIGHTS,TAIL LIGHTS- GROUND

2–14 AWG BLUE WIRE- BRAKES- NOT USED

3–14 AWG GREEN WIRE- CLEARANCE LIGHTS. TAIL LIGHTS- POSITIVE

4–10 AWG BLACK WIRE- CONNECT TO BATTERY- POSITIVE

5–14 AWG RED WIRE- LEFT TURN SINGLE, BREAK LIGHTS- POSITIVE

6–14 AWG BROWN WIRE- RIGHT TURN SINGLE BREAK LIGHTS- POSITIVE

8–14 AWG YELLOW WIRE-BACK UP LIGHTS, BOTH LEFT 8. RIGHT TAIl LIGHTS- POSITIVE

NOTE: ELECTRIC JACKS ARE WIRED DIRECTLY TO BATTERY.

DO NOT BACK FEED THROUGH THE CONVERTER.

Palomino RV uses a proprietary connection plug which has been designed specifically to handle the amperage requirements of the12v circuit on the 3-way refrigerator.

⚠WARNING UNDER NO CIRCUMSTANCES SHOULD THE PLUG BE ALTERED OR CHANGED TO ANY OTHER TYPE. COMMON STYLE PLUGS ARE NOT DESIGNED TO ACCOMMODATE THESE GAUGE WIRE REQUIRED FOR THE REFRIGERATOR.

DO NOT USE LESS THAN 8 GAUGE WIRE SIZE FOR CHARGE LINES. DO NOT ATTACH THEM TO SMALLER GAUGE WIRES. YOUR CAMPER IS EQUIPPED WITH A 3-WAY REFRIGERATOR WHICH USES 120 VOLT, 12 VOLT OR LP GAS TO OPERATE. SELECTING 12 VOLT OPERATION REQUIRES A LARGE AMOUNT OF AMPERAGE THIS SELECTION SHOULD ONLY BE USED WHILE TRAVELING. YOUR TRUCK ALTERNATOR CAN PRODUCE THIS AMOUNT OF AMPERAGE.

COLOR	GAUGE	FUNCTION
Black	8	12 volt power
White	8	Ground(-)
Green	14	Running Lights
Red	16	Left Turn Signal
Brown	16	Right Turn Signal
Yellow	16	Back-Up Lights

Using an 8 gauge wire from your truck battery to the camper will ensure that adequate amperage will be supplied to the refrigerator.

12 VOLT SYSTEM OVERLOAD

To protect your truck's 12-volt system from overload, a 40-amp circuit breaker should be installed at the power source under the hood. A battery isolator may be installed on your Palomino camper. Its purpose is to protect your truck's starting battery from discharge.

To handle the camper's electrical requirements and to charge the camper battery, 8 gauge hot and ground wires must be run form the power source under the truck hood to the 12-volt camper electrical connector location in the truck bed. If unsure of the proper procedure, consult your Palomino RV dealer

MANUAL JACKS

To extend or retract a jack, push the handle onto drive shaft and rotate slightly until drive pin is engaged in handle slot. Rotate handle clockwise to raise camper to counterclockwise to lower camper.

'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

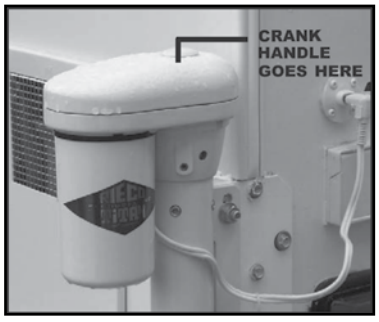
Quick-To-Ground Feature:

Manual Jack

To extend the jack to the ground from the transport position on the truck, disengage the release bar and step down on jack base plate.

NOTE: DO NOT USE QUICK-TO-GROUND FEATURE WITH THE HANDLE IN PLACE. DUE TO CLOSE TOLERANCES BUILT INTO THE JACK, THE QUICK-TO-GROUND FEATURE MAY NOT WORK FREELY UNTIL THE JACK HAS BEEN USED SEVERAL TIMES.

ELECTRIC CAMPER JACKS



Electric Jack

Electric jacks need 12 volt battery power to operate. The camper battery must be charged and in good condition. If the battery is too low to operate the jacks, charge the battery before using jacks. If the camper is on the truck, starting the truck's engine will supply power to the jacks as long as the 12 volt electrical power cord is connected.

If the camper is off the truck and battery power is low, a 12 volt electrical connector extension (available from your Palomino Dealer) can be used to connect the camper to the truck to power the jacks. If no power is available, use the manual override operation.

NOTE: DO NOT USE THE ELECTRIC JACKS TO RAISE OR LOWER THE CAMPER USING ONLY 120 VOLT POWER. THE CONVERTER'S CHARGER WILL BE DAMAGED IF THE JACKS ARE OPERATED WITH 120 VOLT POWER THROUGH THE 12-VOLT CONVERTER WITHOUT USING THE CAMPER BATTERY OR IF THE BATTERY IS LOW.

NOTE: BEFORE OPERATING THE REMOTE CONTROL ELECTRIC JACKS, BE SURE TO READ AND UNDERSTAND THE OPERATING INSTRUCTIONS PROVIDED WITH YOUR CAMPER.

Jack Remote Control

The jacks are operated with a hand held remote control. To activate the remote, locate and press the activation switch located inside the camper, at floor level, near the entry door. A light on the face of the switch will illuminate when activated. The switch is on a time delay and it will automatically shut off approximately 10 minutes after activation. After use, store the remote control in a secure place away from access by children.

The hand held remote control operates on radio frequency, which is similar to remote units for garage door openers. The remote is powered by a 9v battery located under the removable cover on the back of the remote unit. The remote has a range of up to 20- feet from the camper. Occasional frequency interference from other nearby remote control devices may occur. This will only result in momentary pauses during the extend or retract operation.

NOTE: KEEP A SPARE 9-VOLT BATTERY AVAILABLE FOR YOUR REMOTE CONTROL.

The frequency of your remote control unit has been pre-set by the manufacturer. If interference problems routinely occur, refer to the manufacturer's operating instructions in your owner's packet to change the frequency.

Jack Activation Switch

The power relay (receiver) for your remote jacks is located on the driver's side forward most cabinet, usually in the cabover step. Some newer models have receivers that use (4) 30 amp ATC fuses that protect each of the jack circuits. If any of the jacks do not operate when depressing the "All Jacks" button on the remote, check the fuses.

To Lift Camper:

1.) Extend the front jacks to the ground. Press and hold the 'ALL JACKS' extend button. All four jacks will simultaneously extend until they touch the ground. Release the button. NOTE: If the jacks do not extend equally, (jacks can extend unevenly due to the distance each jack is located from the 12V source), extend the front jacks so camper is 4" higher in front than in the rear. Once the camper front is higher than the rear, press and hold the 'ALL JACKS' button. Release the button when the camper is at the desired height. Make sure the front of the camper stays higher than the rear and is level.

2.) Use the individual jack buttons to adjust an individual jack. Press and hold the Extend or Retract buttons for the individual jacks as needed to keep the front of the camper 4" higher than the rear, and to prevent overloading the front jacks. Keep all corners within 4" of level with each other.

3.) Using your remote control, operate all jacks together until the camper clears the truck bed by 4". If necessary to operate the jacks individually, starting with the front jacks, extend the jacks no more than 4" at a time, keeping the camper as level as possible. Repeat the process until the camper has cleared the truck bed by approximately 4".

4.) Slowly drive the truck out from under the camper. Be sure to clear the front overhang.

5.) Lower the camper with the rear jacks first, and then the front jacks no more than 4" at a time. Always lower camper close to ground level.

DO NOT use tall sawhorses, cinder blocks, etc., to support the camper in the raised position.

DO NOT enter or occupy the camper in a raised position.

NOTE: THE MAVERICK CAMPER IS DESIGNED TO BE USED WHILE STANDING ON THE JACKS IN A LOWERED POSITION WITHOUT DAMAGE TO THE CAMPER; HOWEVER, THE BRONCO WILL NEED ADDITIONAL SUPPORT.

NOTE: WHEN LOWERING THE CAMPER, DO NOT ALLOW CAMPER BUMPER OR GENERATOR EXHAUST PIPES TO TOUCH THE GROUND AS FIRE OR OTHER DAMAGE COULD RESULT. ALLOW TWO INCHES OF CLEARANCE TO THE GROUND. ALWAYS KEEP THE FRONT OF THE CAMPER HIGHER THAN THE REAR.

If The Jacks Fail to Operate, Be Certain That:

- the 9v battery in the remote control unit is fresh.
- the control switch light located next to the entry must be on.
- you are within range for the remote to operate.
- adequate 12v battery power is available.
- the jack electrical cord is securely plugged into the exterior socket.
- hold the remote vertically (keypad facing you) and have it between the camper and you.
- if other radio frequency devices are making the jacks pause, lift your finger from the button and press the button again.

MANUAL OVERRIDE OPERATION:

To manually extend or retract jack, unplug the jack from the camper. Place the manual override

handle into the alignment tube and engage the drive pin. Rotate handle to raise or lower camper. The handle should rotate without excessive force. Using excessive force to extend or retract the jack can cause damage to the internal components of the jack.

LEVELING/STABILIZING CAMPER

Prior to lowering the jacks, park on a flat level surface, if possible; certainly never on a steep slope. If not parking on a level surface, use wood blocks under the truck tires to assist in leveling. Be sure that the block is larger than the 'footprint' of the tire.

No part of the tire should even hang over the edge of the block, (this includes duallies). Allowing part of the tire to hang over, can cause internal damage to the tire. While being level is necessary for comfort, it is also required for correct operation of your refrigerator and slide room/s. The jacks should only be used to stabilize the camper when it is attached to the truck.

NOTE: ATTEMPTING TO LEVEL YOUR CAMPER AND TRUCK USING THE JACKS CAN OVERLOAD YOUR JACKS AND CAUSE DAMAGE TO THE JACKS, YOUR CAMPER, AND YOUR TIE-DOWN SYSTEM.

NOTE: IF YOU ARE UNSURE OF THE PROCESS, PLEASE CONSULT YOUR PALOMINO RV DEALER.

STORAGE

After loading the camper, you should have the cooking utensils and can goods on the floor or bottom shelf, and the light weight box items in the overhead cabinets. Also, consider using the unbreakable type plates and saucers, and wrapping your breakable items with dish towels.

Clothing hung in wardrobes should be kept on hangers that snap over the clothes rods to keep them from "jumping" off on rough roads.

SWING-OUT BRACKETS: (IF EQUIPPED)

To load or unload campers on dual rear wheel trucks, swing-out brackets are installed on the front jacks to clear the fender. To operate, follow the steps below:

1.) Lift jack from the travel notch locked position and swing outward from the camper body.

2.) Position jack so when camper jack is lowered, the notch and raised tab engage to prevent rotation.

3.) Repeat the process for the other front mounted jack.

4.) Follow the standard camper loading and removal procedures below.

SUPPORT EQUIPMENT

Air Bags

Adding air bags can improve vehicle ride, safety, and handling. Air bags are used to maintain proper weight distribution to all the tires to improve steering, braking and tire wear. Air bags also increase spring rate and improve your truck and camper stability.

Air bags are used to raise your loaded truck back to the normal ride height. A level, balanced vehicle handles better and provides a safer, more comfortable ride.

Heavy Duty Shocks

An adjustable shock absorber can significantly increase ride performance in all types of driving conditions, on and off-road.

PROLONGED OCCUPANCY

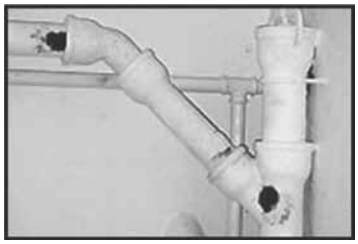
Your camper was designed for recreational use and short-term occupancy. If you expect to occupy the camper for an extended period, be prepared to deal with condensation and the humid conditions that may be encountered.

The relatively small volume of space and the airtight construction of a modern truck camper means that the normal living activities of even a few occupants will lead to rapid moisture saturation of the air contained in the camper and the appearance of visible moisture, especially in cold weather.

Just as moisture collects on the outside of a glass of cold water during humid weather, moisture can condense on the inside surfaces of your camper during use in cold weather, when the relative humidity of interior air is high. This condition is increased due to the insulated walls of the camper are thinner than house walls.

Studies indicate that a family of four can evaporate up to three gallons of water daily, through breathing, cooking, bathing, and washing. Unless the water vapor is carried outside by ventilation, or eliminated using a dehumidifier, it will condense on the inside of the windows and walls as moisture, or in cold weather, as frost or ice. The moisture may also condense out of sight, within the walls or the ceiling where it will manifest itself as warped or stained panels, or as mold or mildew.

Condensation on a window is an indication of too much humidity.



Rust on pipes or other parts of heating, plumbing or air conditioning equipment is also a sign of too much humidity.

Appearance of these conditions may indicate a serious condensation problem. When you recognize the signs of excessive moisture and condensation in your camper, you should take action to minimize their effects. **DO NOT** ignore this issue. Doing so could result in damage to your camper due to neglect, and could void or decrease your warranty.

Tips to Help Control Humidity in Your Camper:

1.) Keep indoor humidity low, if possible below 60%. (Ideally between 30 and 50%) relative humidity. Relative humidity can be measured with a moisture or humidity meter. The meter is a small, inexpensive ($10-$50) instrument available at most hardware stores. Some larger campground stores may also have the meters.

2.) Consider using a small dehumidifier to help rid the unit of moisture.

3.) Avoid hanging wet clothing to dry inside your camper.

4.) When showering or bathing, open the roof vents or turn on a fan to allow steam and moisture to escape. Dry the shower walls to prevent water evaporation into the camper.

5.) Be sure no vents are obstructed and that all vents are properly sealed. Pay particular attention to appliances that produce moisture, such as air conditioners, showers, oven vents, and clothes dryer vents.

6.) Consider using the microwave oven instead of the stovetop to boil water or soups for long periods. If you choose to use the stove to boil water or soup, open a window or a vent slightly, (even in cold weather), to provide a passage for airflow. This will help restrict the humidity inside your camper.

7.) Recirculate the air by using vent fans or small oscillating fans. If condensation occurs, keep the windows clean in order to prevent the growth of mold and mildew.

NOTE: WHEN IT RAINS, WATER MAY COLLECT IN THE BOTTOM OF THE WINDOW FRAME AND DRAIN OUT OF THE WEEP HOLES, WHICH ARE DESIGNED FOR THAT PURPOSE. IF YOUR UNIT IS NOT LEVEL, THE WATER MAY NOT DRAIN PROPERLY. THIS COULD CAUSE WATER DAMAGE TO THE WINDOW OR WALL AND COULD BREED MOLD OR MILDEW CAUSED BY CONDENSATION.

NOTE: IF YOU HAVE WATER AND/OR MOLD DAMAGE CAUSED BY SEWAGE OR OTHER CONTAMINATED WATER, IT IS BEST TO CALL IN A PROFESSIONAL WHO HAS EXPERIENCE CLEANING LIVING SPACES DAMAGED BY CONTAMINATED WATER.

CAUTION IF YOU HAVE HEALTH CONCERNS, CONSIDER CONSULTING A HEALTH PROFESSIONAL BEFORE BEGINNING MOLD CLEAN UP .

NOTE: YOUR CAMPER IS NOT DESIGNED TO BE USED AS PERMANENT HOUSING. USE OF THIS PRODUCT FOR LONG-TERM OR PERMANENT OCCUPANCY MAY LEAD TO PREMATURE DETERIORATION OF THE STRUCTURE, INTERIOR FINISHES, FABRICS, CARPETING AND DRAPES. DAMAGE OR DETERIORATION DUE TO LONG-TERM OCCUPANCY MAY NOT BE CONSIDERED NORMAL USE, AND MAY, UNDER THE TERMS OF THE WARRANTY, CONSTITUTE MISUSE, ABUSE OR NEGLECT, AND MAY THEREFORE REDUCE YOUR WARRANTY PROTECTION.

Windows

Tight fitting, removable, thermal windows will help reduce or eliminate condensation on window glass. The interior surface of the thermal window will be warmer, reducing moisture condensation.

⚠WARNING IT IS NOT SAFE TO USE COOKING APPLIANCES FOR COMFORT HEATING!!

Cooking appliances need fresh air for safe operation. In addition to the hazards of toxic fumes and oxygen depletion, open flames add moisture to the interior air, increasing condensation.

Ventilate

Ventilate closets and cabinets. During prolonged use in very cold weather, leave cabinets and closet doors partially open to warm and ventilate the interior of storage compartments built against exterior walls. The airflow will warm the exterior wall surface, reducing or eliminating condensation and minimizing possible ice formation.

Dehumidify

Consider using a dehumidifier. During prolonged, continuous camper use, a dehumidifier may be more

comfortable and more effective in removing excess moisture from interior air. While use of a dehumidifier is not a 'cure-all', proper ventilation, storm windows, and moisture reduction continue to be important. Operation of the dehumidifier will reduce the amount of outside air needed for ventilation. The heating load on the furnace will also be reduced, and the interior of your camper will be less drafty.

FIRE AND SAFETY

The possibility of fire exists in all living areas, and the recreational vehicle is no exception. Your camper is a complex product composed of many different materials—some of them flammable. You can virtually eliminate the possibility of fire by recognizing the dangers and practicing common sense safety and maintenance habits.

SAFETY DEVICES

Never ignore alarms on safety devices. If the alarm sounds and you are not absolutely certain of the source, get everyone outside immediately.

Always have a plan of escape. Update and practice your escape plan every six months. Have a meeting and discuss the plan with your family and guests,demonstrating the correct procedure to follow in the event of a fire. Do not waste time by picking up valuables or getting dressed. Sometimes seconds count!

Weekly dust the alarms by vacuuming, using the soft vrush attachment on your vacuum cleaner. DO NOT spray cleaning agents or waxes directly onto the detectors, as this may cause damage to the sensors.

Smoke Detector

- Smoke alarms may not have time to alarm before the fire causes damage, injury or even death.
- A smoke detector works for only detecting smoke, not fire.
- The alarm will sound only if smoke reaches the sensor.
- Check battery/s at least once a week while the RV is in use.
- This unit will not alert hearing-impaired residents. (Special alarms with flashing strobe lights are needed for the hearing impaired.)
- Smoke alarms have a limited life and are not foolproof. Never attempt to repair this unit. Replace the complete unit if faulty.

Carbon Monoxide Gas Safety Precautions

Carbon monoxide gas is colorless, tasteless, and odorless. It is a combustion by-product of fuel burning engines. The engines in your truck and generator system (if installed) produce it constantly while they are operating.

DANGER CARBON MONOXIDE GAS IS DEADLY. PLEASE READ AND UNDERSTAND THE FOLLOWING WARNINGS AND

'CAUTION' indicates a hazardous situation which, if not avoided, could result in vehicle damage or minor to moderate injury.
'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.
DANGER! Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

PRECAUTIONS TO PROTECT YOUR SELF AND OTHERS FROM THE EFFECTS OF CARBON MONOXIDE GAS.

DANGER EXHAUST GASES ARE DEADLY. **DO NOT** BLOCK THE TAILPIPES OR SITUATE THE VEHICLE IN A PLACE WHERE THE EXHAUST GASES HAVE ANY POSSIBILITY OF ACCUMULATING EITHER OUTSIDE, UNDERNEATH, OR INSIDE YOUR VEHICLE OR ANY NEARBY VEHICLES.

⚠WARNING OUTSIDE AIR MOVEMENT CAN CARRY EXHAUST GASES INSIDE THE VEHICLE THROUGH WINDOWS OR OTHER OPENINGS REMOTE FROM THE EXHAUST OUTLETS.

⚠WARNING OPERATE THE ENGINE(S) ONLY WHEN SAFE DISPERSION OF EXHAUST GASES CAN BE ASSURED, AND MONITOR OUTSIDE CONDITIONS TO BE SURE THAT EXHAUST CONTINUES TO BE DISPERSED SAFELY.

⚠WARNING **DO NOT** UNDER ANY CIRCUMSTANCES OPERATE ANY ENGINE/S WHILE SLEEPING.

⚠WARNING DO NOT MODIFY ANY EXHAUST SYSTEM IN ANY WAY.

⚠WARNING NEVER DISCONNECT THE BATTERY TO SILENCE THE ALARM.

CO Detector

- The carbon monoxide detector is designed to detect carbon monoxide from any source of combustion. It is NOT designed to detect smoke, fire or any other gases.
- This detector operates on battery power. Remove batteries only for replacement.
- Test alarm each week while RV is in use and before beginning a trip. Press the 'TEST' button. If the alarm fails to sound, replace the unit immediately. DO NOT attempt to repair.

LP Detector

- This detector senses propane gas in the air, not smoke or fire or other gases. It detects the presence of propane gas at the sensor; explosive gas may be present in other areas.
- Test your LP detector weekly. If the alarm is located behind a closed door, it may not be heard.
- DO NOT attempt to repair the detector. If it fails the test, change batteries and if it still does not function properly, replace the entire unit.

FIRE EXTINGUISHER

The fire extinguisher in your camper is located near the main entry door. Your fire extinguisher should be replaced immediately after use or discharge.

If you decide it is safe to fight a fire with an extinguisher:

- Remove the tamper tape which covers the discharge push button. **DO NOT SHAKE.**
- Hold it upright and stand six to ten feet from the fire, with a clear path to an exit.
- Press the button down completely, aiming at the base of the fire and spray with quick side to side sweeping motion.

TIP:

Use the 'PASS' method. Familiarize yourself and all RV occupants with its' use

- Pull the pin (some extinguishers may have a cartridge you need to push).
- Aim the nozzle at the base of the fire.
- Squeeze the handle to release the extinguishing agent.
- Spray the base of the fire. (If you aim at the flames, you won't extinguish the fire.)

CAUTION Avoid inhaling the dry chemicals from the fire extinguisher. Although non-toxic, they could cause temporary irritation. When the fire is out, clean the area as soon as possible. The dry chemicals may cause surface damage if left too long.

DO NOT USE WATER TO EXTINGUISH A FIRE

Water can spread some types of fire and electrocution is possible.

UNDERWRITER LABORATORIES CLASSIFY FIRES INTO THREE TYPES:

Class A: Fires in wood, paper, fabric, rubber and certain plastics.

Class B: Flammable liquids such as grease, cooking oils, gasoline or kerosene.

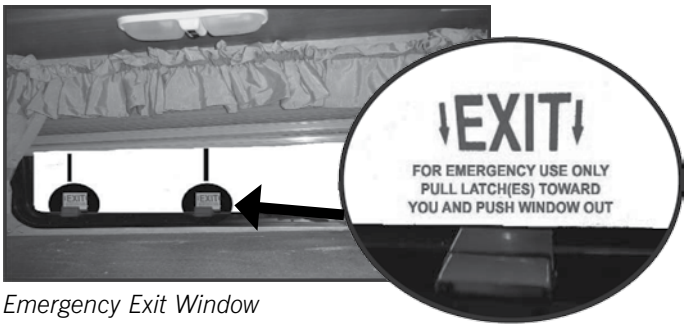
Class C: Electrical fires started from live electrical wires, shorted motors/switches.

'CAUTION' indicates a hazardous situation which, if not avoided, could result in vehicle damage or minor to moderate injury.
'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.
DANGER! indicates a hazardous situation which, if not avoided, will result in death or serious injury.

NOTE: THE FIRE EXTINGUISHER PROVIDED WITH THE RECREATIONAL VEHICLE IS A CHEMICAL TYPE SUITABLE FOR EXTINGUISHING SMALL FIRES OF THE CLASS B OR C TYPE.

⚠WARNING EXTINGUISHERS ARE DESIGNED TO PUT OUT A FIRE IN ITS INITIAL STAGE, NOT WHEN IT IS BLAZING OUT OF CONTROL. IF A FIRE CANNOT BE APPROACHED WITHIN 10 FEET WITHOUT THE RISK OF CAUSING PERSONAL HARM, IMMEDIATELY EVACUATE THE CAMPER AND CALL 911.

NOTE: YOUR CAMPER IS EQUIPPED WITH AN EMERGENCY EXIT WINDOW. BE SURE ALL OCCUPANTS AND GUESTS KNOW THE LOCATION OF THE WINDOW AND HOW IT OPERATES.



Emergency Exit Window

EMERGENCY WINDOW EXIT OPERATION

The emergency exit window is located in the cabover area of the camper and is identified by the red handle and EXIT label. To operate the emergency exit window, pull the red handle(s) and swing the window outward. The window is hinged at the top.

NOTE: Storm windows should never be installed over emergency exit windows.

NOTE: NEVER cover exit window with any type of winterizing film when camper is in use.

NOTE: When parked, be sure the exit window is not blocked by trees or other obstacles

NOTE: *THE CABOVER SKYLIGHT CAN ALSO BE USED AS AN ESCAPE ROUTE.*

Read and understand these instructions before you need to use them. The emergency exit window provides an escape route in case the camper must be evacuated under emergency conditions and the path to the main entry door is blocked.

BACKUP CAMERA

The backup camera (optional) is located in the center of the rear wall, directly below the center running lights. It is a color camera with a built-in microphone. The connection cable exits the camper in the roadside front corner next to the truck electrical connection. The mating harness and monitor are available from your Palomino Dealer.

ELECTRICAL

The electrical system consists of a primary 12-volt DC system and a 120-volt AC system. The 12-volt system uses battery power similar to that used in automobiles. The 120-volt system requires a source of 120-volt power provided through the power supply cord or optional generator.

These systems are connected through a power converter. When connected to a 120-volt power, the converter transforms 120-volt AC input into 12-volt DC power output and charges the storage battery(s) when installed.

Battery Terminology

Deep Cycle Batteries

A cycle refers to one battery discharge and recharge.The term 'deep cycle' refers to a battery that has the capability of deeply discharging hundreds of times. It differs from an automotive battery which is manufactured to provide a quick burst of energy thousands of times, while only being able to deeply discharge less than 50 cycles during its lifetime.

Battery Ratings and Specifications

Marine/RV deep cycle batteries have rating specifications which include cold cranking amps (CCA), marine cranking amps (MCA), reserve capacity (RC) and ampere hours (Ah). RC and approximate Ah ratings may not be listed on the

'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

battery decal. However, they should be available through your local battery distributor.

Cold Cranking Amps (CCA)

The amount of current (amps) a battery at 0°F(-17.8°C) can deliver for 30 seconds and maintain at least 1.2 volts per cell (7.2 volts for a 12-volt battery).

Marine Cranking Amps (MCA)

The amount of discharge current a battery tested at 32°F (0°C) can deliver for 30 seconds and maintain at least 1.2 volts per cell (7.2 volts on a 12-volt battery).

Reserve Capacity (RC)

The amount of time a battery can deliver 25 amps at 80°F (26.7°C) without falling below 1.75 volts per cell (10.5 volts on a 12-volt battery). An approximate Ah rating can be attained by multiplying the battery's RC rating by 0.6. Example 180 RD X 0.6 = 108 Ah.

Ampre hours (Ah)

Tested at 80°F (26.7°C). It is the amount of current (in amps) a battery can deliver, multiplied by the amount of hours, without falling below 1.75 volts per cell (10.5 volts on a 12-volt battery). Most marine/RV deep cycle batteries are rated on a 20-hour discharge rate. Example: a 100 Ah battery can deliver 5 amps for 20 hours (amps X

hours = Ah). The Ah rating is important when determining the type and amount of battery(s) required to meet your specific component needs.

Battery Information

The battery(s) must be securely strapped in the compartment at all times.

The battery(s) is charged by the truck's charging system while the truck is running or when connected to 120-volt power through the power converter. If equipped, the on-board generator charges the battery while running through the power converter.

Check that the battery liquid level is correct (weekly in warm climate, monthly in cold climate). Using protective gloves, take the caps off the battery . Look for a 'fill line' inside the battery wall. If the fluid is below the line, add distilled water as required. Remember to also check the condition of your truck battery.

Clean battery terminals and cables periodically using a wire brush and baking soda. Be sure the caps are securely in place when cleaning. Be sure the wing nuts on top of the battery are tight. Loose wing nuts can cause arcing and intermittent, or loss of, 12-volt power. Use caution not to touch battery terminals to metal door frame when removing or installing the battery. Always disconnect the negative (-) cable first and reconnect it last.

Remove rings, metal watchbands, and other metal jewelry before working with a battery. Use caution when using metal tools. If the tool contacts the battery terminals or metal connected to them, a short circuit could occur which could cause personal injury or fire.

DO NOT allow battery electrolyte to contact skin, eyes, fabrics or painted surfaces. The electrolyte is a sulfuric acid solution that could cause serious personal injury or property damage. Wear eye protection when working with batteries.

Battery Storage Precautions

When you store your camper for a week or more be sure to disconnect the battery(s). Electronic tuning radios, the propane detector, and the CO detector all draw a small amount of current when the battery is connected. Even disconnected batteries will naturally "self-discharge" about 1% of capacity per day. If you intend to store your camper for any length of time, remove the battery(s). Store it in a cool, dry place and recharge every month. Batteries will discharge on their own. Recharging will also help prevent problems with battery sulfation which leads to premature battery failure.

Battery Charging

Normally the battery(s) will be kept charged by either the truck charging system while on the road, the roof mounted solar panel, or by the AC/DC power converter when plugged into AC service. On those occasions when the battery needs to be charged from a different charging source, please follow these safety guidelines:

- Disconnect both cables to prevent damage to the camper's electrical system.
- **DO NOT** smoke near batteries that are being charged or which have recently been charged.
- Use care when connecting or disconnecting booster leads or cables while charging. Poor connections are a common cause of electrical arcs that can cause explosions.
- Check and adjust the electrolyte level before charging. Fill each cell to the indicator level with distilled water. Always remove the vent caps (if equipped) before charging the battery.
- Never expose the battery to open flame or electric spark. Chemical action in the battery generates hydrogen gas that is flammable and explosive.
- To avoid sparks, turn off all electrical components before connecting the battery cables. Connect the BLACK or RED cable to the POSITIVE (+) post on the battery. Connect the WHITE cable to the NEGATIVE (-) post.

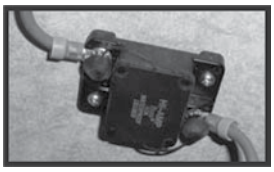
DANGER! Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

NOTE: THERE ARE FUSES LOCATED ON THE FRONT OF THE POWER CONVERTER WHICH WILL PROTECT THE CAMPER'S ELECTRICAL SYSTEM IF THE BATTERY IS ACCIDENTALLY CONNECTED IN REVERSE.

NOTE: THE BATTERY IS CONTINUOUSLY BEING CHARGED WHILE YOU DRIVE, AND WHILE CONNECTED TO 120 VOLT AC POWER THROUGH THE POWER CONVERTER/ CHARGING CIRCUIT.

CIRCUIT BREAKER

(12 VOLT INTERIOR CIRCUITS)



The main circuit breaker is generally located inside the camper, in the pullout storage drawer at the step well. It will not allow power to the camper or the battery(s) to be charged when an overload or short circuit occurs.

To reset the breaker, disconnect and reconnect the white negative (-) cable from the battery. If your camper is equipped with a battery disconnect switch, pushing the battery disconnect switch, located on the monitor panel, to "store" then "use" will accomplish the same. If the breaker continues to trip, a short circuit or overload condition is indicated. Have the system checked by qualified personnel.

SYSTEMS MONITOR PANEL

The systems monitor panel may incorporate controls and instrumentation for the water and holding tank levels, battery voltage level, battery disconnect, water pump, water heater ignition, generator start and hour reading.

WATER PUMP CONTROL SWITCH

The rocker switch controls the demand water pump. The water pump is pressure sensitive and starts (with the switch ON) when a faucet is open, causing pressure in the line to drop. When the faucet is closed, pressure builds in the line and the pump stops.

MONITOR PANEL – LEVEL INDICATOR SWITCH

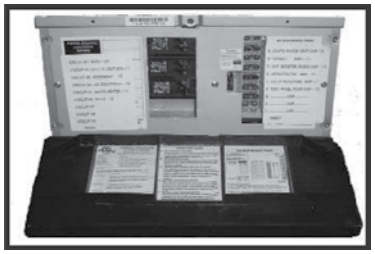
When depressing the monitor switch, indicator lights for the black (waste), grey (sink and shower) and fresh water, (for drinking and cooking) tank will illuminate, indicating the existing condition of each component. The battery level is a digital display that reflects the battery voltage when the switch is depressed.

Erroneous indications when checking water levels can be caused by water with low mineral content. Level is measured by a very low electrical signal traveling through the liquid. Water that is low in mineral content may not conduct the signal properly. This condition may be infrequent, but be aware it can exist. Check the panel reading when the fresh water tank is filled. Material trapped on the sides of the holding tanks may give a full reading when the tank is actually empty. Use of a spray to wash out the tank following dumping should help prevent this condition.

NOTE: If the sensor probes mounted in the tanks get coated with grease, the monitor panel may indicate falsely or not at all. Avoid pouring grease, oils, or similar substances down drains or the toilet. If this is unavoidable, the holding tank(s) should be washed out with a soapy water solution.

CAMPER FUSE PANEL

(12-VOLT INTERIOR CIRCUITS)



A 12-volt interior fuse panel is installed in the Power Distribution Center to protect the interior circuits. Circuit labels and fuse sizes are marked inside the removable access door. If a fuse blows, locate and correct the cause. Turn off all lights and motors, and then install a fuse with the same rating. If fuses continue to blow, a short circuit is indicated. Have the system checked by qualified personnel.

FUSES

All the electrical circuits in your camper have fuses to protect them from short or overload. If something electrical in your camper stops working, the first thing you should check for is a blown fuse. Determine from the chart, or the diagram on the fuse panel, which fuse or fuses control that component. Check those fuses first, then check all fuses before deciding that a blown fuse is not the cause. Replace any suspect fuse/s and check the component's operation.

Do not install fuses with amperage ratings greater than that specified on the label. Replacing a fuse with one that has a higher rating greatly increases the chances of damaging the electrical system. If you do not have a replacement fuse with the proper rating for the circuit, install one with a lower rating until you can preplace it with the properly rated fuse.

If the replacement fuse of the same rating blows in a short time, indications are that there is probably an electrical problem with your camper. Leave the blown fuse in that circuit and have your camper checked by your Palomino RV dealer.

INTERIOR LIGHTING

The interior lighting operates on 12-volt DC power only. When connected to a 120-volt source or when using the generator, the power converter transforms 120-volts to 12-volts. However, when not connected to 120-volts, the entire load of lights, water pump, exhaust fans, etc., is operating on your 12-volt battery(s). Use power conservatively to minimize battery discharging.

LIGHTING FIXTURES

Some of the lighting fixtures may be equipped with halogen bulbs. The bulbs and fixtures may get very hot when they in use. Do not touch these lighting fixtures when they are on. Allow them to cool before attempting to replace a bulb or to clean. Replace all light bulbs with the same type and wattage as originally installed or as indicated on the fixture.

ROOF MOUNTED ANTENNA AND TV OUTLET

The roof mounted TV antenna is designed for reception of VHF and UHF television signals.

NOTE: BEFORE TRAVELING ALWAYS REMEMBER TO LOWER THE ANTENNA TO PREVENT DAMAGE TO THE ANTENNA, CAMPER ROOF, OR OBJECTS IN THE PATH OF THE ANTENNA, SUCH AS OVERHEAD WIRES.

The TV jack outlet is located at the primary TV location. To prevent battery drain, the booster switch should be turned OFF when not viewing the TV, as the red indicator light will use a small amount of current. It may be necessary to also unplug the TV as some also use a small amount of power, even when not in use.

Antenna Power Booster

1.) 12-volt outlet/TV connection
2.) Cable TV connection
3.) Antenna booster switch
4.) Antenna booster light (red)

To use the TV antenna, turn the switch ON. The switch is located on the antenna booster outlet, (Item 3). A red light will luminate, indicating the antenna booster is powered.

There will be a small continual 12-volt current drain as long as the switch is on. Turning the switch OFF changes the TV jack from antenna operation to park cable and ceases the current draw.

NOTE: THE 12-VOLT OUTLET IS INTENDED FOR A TV ONLY AND RATED FOR 7.5 AMPS. DO NOT USE FOR HIGHER RATED APPLIANCES

120-VOLT AC SYSTEM

The 120-volt electrical system supplies power to the following components:

- AC to DC Power converter
- 120-volt Outlets (interior and exterior)
- Refrigerator
- Roof Mounted Air Conditioner (optional)
- Convection/Microwave Oven

NOTE: NEVER OPERATE THE 120-VOLT ELECTRICAL SYSTEM WITHOUT A PROPER GROUND. NOTES:

120-VOLT POWER CORD

Your camper is equipped with a heavy-duty power cord for connecting to an external 120- volt, 30 amp rated service. The cord is commonly called the 'shore cord'. The cord and plug are molded together to form a weatherproof assembly. DO NOT cut or alter the cord in any way. DO NOT remove the ground pin from the attachment plug. If you have to use an adapter to plug into an electrical service, be sure the ground is maintained.

30 Amp Shore Cord

Never use a two-conductor extension cord, or any cord that does not assure appropriate and adequate ground continuity. Use a 30-amp RV extension cord with a maximum length of 25'.

NEVER PLUG THE 120-VOLT CORD INTO AN UNGROUNDED RECEPTACLE.

AUTO TRANSFER RELAY

Campers that are generator ready or have a generator installed are equipped with an Auto Transfer Relay. The Auto Transfer Relay automatically switches to generator power when the generator is activated. Both the shore cord and the generator output circuit are wired to the transfer relay. It is then wired to the Power Distribution Center. When connected to shore power the relay switches to shoreline power. To operate the camper from the onboard generator, simply start the generator. After about a 20-second delay, to allow the generator to stabilize, the relay will engage, transferring all the 120-volt AC load to the generator. (THIS IS A SAFETY FEATURE - DO NOT TAMPER WITH THE RELAY.) If you think there is a problem with the relay, see your Palomino dealer.

POWER DISTRIBUTION CENTER

The power distribution center consists of 120-volt AC and 12-volt DC panels. The 120-volt AC panel board containing a 30-amp main beaker and 15- and/or 20-amp branch circuit breakers. These breakers interrupt the power if the rated

current is exceeded. If a breaker trips repeatedly, reduce the load on that circuit and have the system checked by your Palomino RV dealer.

POWER CONVERTER

Switching from 120-volt AC power to 12-volt DC power is automatic when the power cord is plugged in or the generator is on. This powers the 12-volt panel board and the connected circuits are protected by the installed fuses. Battery charging is automatic when plugged into 120-volt AC power. The converter has reverse battery circuitry to prevent damage if the battery is accidentally connected in reverse. There are two 30-amp AC fuses located in the front of the converter, which are accessed by removing the louvered grill located next to the power distribution center. These fuses protect the power converter from accidental shorting of the power cables at the battery or reverse polarity caused by accidental cross connecting the battery. Remember BLACK or RED is POSITIVE (+), WHITE is NEGATIVE (-).The power converter has a cooling fan that will run at appropriate times to cool the converter.

NOTE: SHOULD THE CONVERTER SHUT DOWN DURING NORMAL OPERATION, HEAT MAY BE THE CAUSE. THE CONVERTER HAS A BUILT-IN AUTOMATIC-RESET THERMAL BREAKER WHICH WILL RESET AFTER A COOLING OFF PERIOD. IF THIS OCCURS FREQUENTLY, YOUR DEALER OR QUALIFIED PERSONNEL SHOULD CORRECT THE PROBLEM. TAKE CARE NOT TO STORE ITEMS IN FRONT OF THE VENT OPENINGS.

CHARGE WIZARD

Your power converter has an integrated Charge Wizard that monitors battery voltage and battery use.

It selects from different charge voltages and operating modes to provide a safe, rapid battery recharge and prevents water loss during periods of storage. Depending on the discharge level of the battery, the Charge Wizard will either select the Boost, Normal or Storage Mode to properly maintain the battery charge. Every 12 hours while operating in the Storage Mode, the Charge Wizard is automatically switched to the Equalizing Mode. The Equalizing Mode increases the charging voltage for 15 minutes which helps prevent problems with battery sulfation, which leads to premature battery failure.

GROUND FAULT CIRCUIT INTERRUPTER (GFCI)

A Ground Fault Circuit Interrupter (GFCI) protects the bathroom, galley, and patio 120-volt receptacles. This device is intended to protect you against the hazards of line to ground electric faults and electrical leakage. Electric shocks are possible when using appliances in damp areas.

TEST the GFCI at least once a month while operating on 120-volt AC power. To test the GFCI push the TEST button. The RESET button should pop out, indicating the protected circuit has been disconnected. If the reset button does not pop out when the test button is pushed, a loss of ground fault protection is indicated. DO NOT use the outlet or other outlets on the same circuit. Have the camper electrical system checked out at an authorized PalominoRV Dealer Service Center. DO NOT use the system until the problem has been corrected.

NOTE: THE GFCI DEVICE DOES NOT PREVENT ELECTRICAL SHOCK. IT DOES NOT PROTECT A PERSON WHO COMES IN CONTACT WITH BOTH THE HOT AND NEUTRAL SIDES OF THE CIRCUIT. IT DOES NOT PROTECT YOU AGAINST ELECTRICAL OVERLOAD.

To Restore Power

If the bathroom, kitchen or patio receptacles do not have power, check the GFCI. If the red reset button has popped out, push it in to reset the receptacle. If power is not restored or if the GFCI continues to trip, have the campers' electrical system checked at an authorized Palomino Dealer Service Center or by a qualified electrician.

GENERATOR READY (OPTIONAL)

The generator compartment is sized for an Onan Camp Power 2500 Propane powered generator provided by Palomino RV. Only qualified Palomino dealer personnel should complete the installation. Do not use this compartment for the operation of a portable generator.

Listed below is information you will need to supply to Onan if your generator needs service.

1.) The complete genset model number and serial number.

2.) The nature of the problem.

If you have difficulty in arranging service or resolving a problem, please contact the Service Manager at the nearest Cummins/Onan distributor for assistance. For more complete information, see the Onan Generator manual supplied with your Palomino RV Owners packet.

EXHAUST GAS IS DEADLY!

Exhaust gases contain carbon monoxide, an odorless and colorless gas. Carbon monoxide is poisonous and can cause unconsciousness and death.

Protection against carbon monoxide inhalation also includes proper exhaust system installation and visual and audible inspection of the complete exhaust system at the start of each generator set operation.

WARNING **DO NOT** BLOCK THE TAILPIPE OR PARK THE CAMPER IN AN AREA WHERE THE EXHAUST GASES HAVE THE POSSIBILITY OF ACCUMULATING EITHER OUTSIDE, UNDERNEATH, INSIDE YOUR CAMPER OR TOW VEHICLE, OR NEARBY VEHICLES.

Outside air movement can carry exhaust gases inside the vehicle through windows or other openings remote from the exhaust opening. Operate the engine(s) only when safe dispersion of exhaust gases can be assured, and monitor outside conditions to be sure that exhaust continues to be dispersed safely.

WARNING **DO NOT** under any circumstances operate the generator while sleeping. You would not be able to monitor outside conditions to assure that generator exhaust does not enter the interior, and you would not be alert to exhaust odors or symptoms of carbon monoxide poisoning.

WARNING **DO NOT** operate the generator when parked in or near high grass or brush areas. Exhaust heat may cause a fire.

WARNING **DO NOT** use the generator as an emergency power source to a residential or industrial utility line. Such operations could cause death or serious injury to workers for utility companies. Such use is unlawful in some states.

WARNING **DO NOT** modify the generator installation or exhaust system in any way.

DISCONNECT THE BATTERY BEFORE PERFORMING ANY MAINTENANCE ON THE GENERATOR.

LP (LIQUID PROPANE) GAS SYSTEM

Please observe the warnings and cautions contained in this section as well as the manufacturers supplied information with each gas appliance.

Propane is stored in a high-pressure tank in liquid form and is delivered to the appliances in a gaseous form. The propane container(s) must not be placed or stored inside a vehicle. The container(s) are equipped with safety devices that relieve excess pressure by discharging propane to the atmosphere.

BTU'S
(British Thermal Unit – a type of measurement)

One gallon of propane produces approximately 91,502 BTU's. Using the BTU rating of each gas appliance in your RV, you can determine about how long your supply will last according to your usage.

Dual 5 gallon propane bottles hold approximately 862,026 BTU's. Dual 7 gallon propane bottles hold approximately 1,294,840 BTU's.

Listed below is an example of the rating of the appliances on your Palomino camper. (Ratings will vary according to type and size of appliance, floor plan and model.)

Water Heater	8,800 BTU
Furnace	15,000 BTU low
	22,000 BTU high
Refrigerator	1,500 BTU
Cooktop	9,000 BTU large burner
	6,500 BTU small burners
	5,600 BTU oven
Generator	31,245 BTU 1/2 load
	506,389 BTU full load

SAFETY PRECAUTIONS

DANGER PROPANE GAS IS HIGHLY FLAMMABLE AND ALSO HEAVIER THAN AIR. IT'S TREATED TO HAVE A GARLIC LIKE ODOR TO AID IN DETECTING A LEAK. IF A LEAK SHOULD OCCUR, THE PROPANE CAN COLLECT IN POCKETS ALONG THE FLOOR AND THEREBY DISSIPATE IN THE AIR. IF LEFT UNNOTICED, IT COULD RESULT IN SUFFOCATION OR AN EXPLOSION.

IF YOU SMELL PROPANE

1.) Extinguish any open flames, pilot lights and all smoking materials.

   a.) Do not touch electrical switches.

   b.) Shut off the propane supply connection.

   c.) Open door and other ventilating openings.

   d.) Leave the area until odor clears.

   e.) Have the propane system checked and leakage source corrected before using again.

2.) Inspect the entire propane system for leaks or damaged parts before each trip.

3.) Never check for leaks with an open flame. Use an approved leak detection solution or a non- ammoniate, non-chlorinated soap solution only. If the leak cannot be located, have the system checked by qualified personnel.

4.) Always be careful when drilling holes or fastening objects to the camper. A nail or screw could puncture the propane supply lines.

5.) Do not restrict access to propane tanks. In an emergency, the tank service valve must be easily accessible. Do not store items or block ventilation openings in the propane compartment.

DANGER! Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

6.) Do not use any propane tanks other than those furnished with your camper.

7.) Propane regulator must always be installed with the diaphragm vent facing downward within 45o of vertical to minimize vent blockage which could result in excessive propane pressure,causing danger of a fire or explosion.

8.) Do not use a wrench or pliers to close the service valve. This valve is designed to be closed leak-tight by hand. If a tool is required to stop a leak, the valve probably needs repair or replacement.

9.) When attaching the hose connector to the valve, don't force, jam or cross-thread the fitting. (Always check fittings for leaks after tightening.)

10.) 1Be sure the tanks are securely fastened when mounted on the camper.

11.) 1Consult a Palomino RV dealer for any propane system repair.

12.) 1Always think of safety, never guess. If you are not sure, please seek a qualified service technician or a certified LP service center.

⚠WARNING TURN OFF MAIN PROPANE VALVE AND INDIVIDUALLY TURN OFF ALL PROPANE APPLIANCES OR ELECTRICALLY DISCONNECT AUTOMATIC IGNITION APPLIANCES BEFORE ENTERING PROPANE BULK PLANT OR MOTOR FUEL SERVICE STATION. WHEN NOT INDIVIDUALLY TURNED OFF, AUTOMATIC IGNITION APPLIANCES MAY CONTINUE TO SPARK.

⚠WARNING DO NOT FILL PROPANE CONTAINERS TO MORE THAN 80% CAPACITY. OVER FILLING CAN RESULT IN UNCONTROLLED PROPANE FLOW THAT CAN CAUSE FIRE AND EXPLOSION. A PROPERLY FILLED CONTAINER HOLDS ABOUT 80% OF ITS VOLUME AS LIQUID.

PROPANE TANK

All new propane tanks must be purged of air and moisture before filling for the first time. The propane tanks should be filled according to the instructions on page 5 and on the tank safety labels. Filling should be done only at authorized propane fueling stations. Please observe the following instructions when filling the storage tanks.

NOTE: D.O.T. REGULATION #173-34 PROHIBITS PROPANE TANKS FROM BEING REFILLED INSIDE THE RV. THE TANK(S) MUST BE REMOVED FROM THE COMPARTMENT TO BE PROPERLY INSPECTED BEFORE REFILLING. USE PROPANE TANKS IN THEIR PROPER POSITION.

Filling Propane Tanks

1.) A small amount of anhydrous methanol (3⁄4 oz. per 5 gal.) can be added before filling an empty tank to prevent freeze0-ups. Check with your propane dealer or the propane tank manufacturer's information in the Owner's Information Package provided with your camper.

2.) The law requires at least a 20% vapor space for safety. A special liquid level valve is installed in the tank to indicate when the tank has reached 80% of its volume as liquid propane. Stop filling when liquid appears at this valve.

3.) Use vapor only. All propane appliances for cooking, heating, lighting, water heating, and refrigeration are designed to operate on propane vapor only. Therefore, all propane tanks designed for vapor service must be transported, installed and used in the proper position. Propane containers are permanently marked with TOP stamped on tank, welded to the tank or ARROWS MUST POINT UP stamped in the guard or bracket to identify the proper position.

4.) Do not transport, install or use a vertical cylinder in a horizontal or upside down position. Never use a horizontal cylinder or tank on its improper side. Liquid propane could enter systems designed for vapor only, creating a hazardous condition.

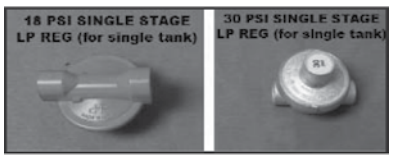
5.) Do not carry or store filled or empty propane containers inside your camper. Propane containers are equipped with a safety device that relieves excessive pressure by discharging gas to the atmosphere. Leaks can occur at valves and fittings. Always store propane tanks with the valves closed.

6.) Always use the dust cap when transporting or storing disconnected tanks (full or empty).

7.) All propane tanks must be securely attached in the proper position for intended use. Use all brackets provided to insure proper support and positioning.

8.) Route all propane lines carefully and avoid kinking the lines. A kinked hose can limit or cutoff the flow of propane through the system.

Using Propane System



It is normal to have a slight gas odor when initially opening the outlet valve. Fully open and seat valve by hand only to prevent leakage past the valve stem. If an odor seems to linger, perform a leak test. Keep outlet valves closed when not using the propane system. **DO NOT** attempt to adjust the regulator; it has been preset by the manufacturer. If any adjustment is required, it must be made by a qualified propane service technician. (Regulator styles may vary but the operation remains the same.)

LP Regulator for Dual Tank

'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

SECTION 5 Electrical & LP Operation

Single Propane Tanks

Single propane tanks are equipped with a two-stage regulator. Be sure the regulator is securely fastened to the tank with the diaphragm vent facing downward. When using the tank, simply open the valve.

Dual Propane Tanks

Dual propane tanks are equipped with a two-stage automatic changeover regulator, which transfers propane demand automatically to the second tank when the first tank becomes empty.

For proper operation, both outlet valves must be opened. Turn or slide the tank selector knob so it points to the tank you wish to provide service. A small glass window is located on the regulator.

A clear band of green will appear in the window indicating that pressure is in the line from the tank. After all propane is used from that tank, the regulator will automatically switch service to the other tank, and a red band will show in the window, with the arrow or slide pointing to the empty tank.

The empty tank can be removed for filling without disturbing the gas flow to the camper by rotating or sliding the tank selector to the full tank. The red band will disappear from the window indicating pressure supply from the full tank. Turn off the outlet valve on the empty tank before disconnecting.

Exterior Propane Connection

Your camper may be equipped with an exterior propane connector. This connector allows for the attachment of a portable barbeque that can use the camper's propane. This connection is for a 'low-pressure' appliance. Regular portable BBQ's are not designed for low-pressure use. Some portable BBQ's can be converted to low-pressure by changing the propane valve to a low-pressure valve. Palomino RV offers two low-pressure propane BBQ's which are available through your Palomino RV Dealer.

SECTION 6 Slide Room Operation

SLIDE ROOM SYSTEM

The slide room uses a rack and pinion mechanism to move the room. The pinion gears are driven by a 12-volt DC electric motor located by the camper battery(s). A switch mounted on the wall controls the room movement.

Slide Room System Operation

During extension or retraction of the slide room you may hear some noises that are associated with the electrical motor or mechanical system. These sounds are normal. Some of the slide room components need a 'break-in' period so they can seat properly. A low amount of noise associated with the electrical and mechanical systems, is normal during slide room operation. If very loud noises occur, contact your Palomino Dealer.

When the slide room is extended outside the camper, elements such as rain, snow, dirt or other debris may cling to the outside surfaces of the room and could affect the function its' function. Remove excess water, snow, dirt, or other debris. Before retracting the room If the slide room will be in the retracted position for an extended period of time, be sure the outside surfaces are as clean and dry as possible.

NOTE: WHILE THE SLIDE ROOM SEAL WILL REMOVE SOME WATER, IT WAS NOT DESIGNED FOR THAT PURPOSE. CHECK THE EXTERIOR OF THE ROOM FOR EXCESSIVE WATER, SNOW OR ICE AND IF PRESENT, REMOVE IT WITH A CLEAN DRY CLOTH. ALSO, REMOVE ANY DEBRIS SUCH AS BRANCHES, LEAVES OR VISIBLE DIRT, BEFORE RETRACTING THE SLIDE ROOM. DAMAGE CAUSED BY RETRACTING THE ROOM WHILE DEBRIS IS PRESENT IS NOT WARRANTABLE.

Normal Slide Room Operation

- Keep people, animals and objects clear of the slide room during operation.
- Ensure the camper is level before beginning operation
- Remove any obstructions that may restrict the slide room movement.
- Before extending or retracting the slide room, open a vent, window or door. (The operation of the slide room can create enough vacuum or pressure to damage windows or doors.)

To operate the slide room, push the switch to the IN or OUT position, depending upon the desired use. When the room is fully extended or retracted, release the switch. There is a thermo limiting circuit breaker built into the control, which will sense an increased load applied to the motor and will automatically shut the motor off after the room makes contact with the interior or exterior seals. After a few seconds, the breaker will reset itself. If the slide room is binding, the circuit breaker will also trip, indicating a problem. Check to see if there is an obstruction. If the room has a clear path, but is still binding, and the breaker continues to trip, do not try to extend the room. If the room is extended, use the manual override operation (listed below) and contact your Palomino RV Dealer.

⚠WARNING DO NOT MOVE THE CAMPER WITH THE SLIDEOUT ROOM EXTENDED.

Manual Override Operation

The slide room system can be overridden to extend or retract the room in the event of an electrical power interruption or failure, or system malfunction. During manual operation of the slide room, the confined working quarters can cause pinch and crush hazards. Ensure that the slide room path is clear of obstructions, in the interior of the camper as well as the exterior. (Check for trees, bushes, etc. that may prevent the room from fully extending.

TIP:

If the slide room will not move when the switch is engaged, check the following:

- The battery is connected and fully charged.
- The power fuse located in the exterior light box in the cabover step (if applicable) is not blown.
- There are no other obstructions in the room's path.
- The camper is level, both front to back and side to side.
- The override switch is in the On-Locked position.
- Confirm that the slide room switch is in the OFF position.

Located inside the cabinet where the slide room switch is mounted, is a manual over-ride switch. Turning this switch to the Off/Unlocked position will allow the electric slide motor to turn easier. This will allow you to crank the room in or out. After the room has been extended or retracted, return the switch back to the On/Locked position.

⚠WARNING FAILURE TO ENGAGE MOTOR COULD CAUSE SLIDE ROOM TO MOVE DURING USE, OR WHILE TRAVELING.

When the room is fully retracted, apply the travel locks and contact your Palomino dealer for service, if required. When the motor is disengaged, the slide room WILL NOT lock in place. It will not be sealed from either the interior or exterior. When the room has been fully retracted, be sure to re- engage the motor to seal and lock the room.

Electrical System Maintenance

Disconnect all power sources before performing any service work on the system, including the 120 volt AC power to the converter, the battery and the connection between the camper and the truck.

The slide room system requires a minimum battery voltage of 12-volts. For best performance, be sure the battery is fully charged .

Maintain the battery as outlined in Section 5 under Electrical & LP operation. Check the terminals and other connections at the battery, fuse panel and the control switch. Be sure the connections are tight, clean, undamaged and corrosion-free.

Mechanical Maintenance

The slide room mechanism is designed to be virtually maintenance free. During long-term storage, apply a seal dressing such as '303 Protectant' to the slide room seals. This type of seal lubricant is available at most RV or auto parts supply stores. Keeping the seals lubricated will also allow easier movement when extending or retracting the slide room.

System Troubleshooting

The camper body, the slide room and the slide room mechanism, combine to make up a slide room system. Each needs to function properly with the others. Every unit has its own characteristics.

Symptoms of malfunction may appear to be the same. However, troubleshooting and repairing must also include a thorough check of all interrelated components. When something restricts room travel, the drive mechanism is designed to stop. If the room is restricted, the system may put undue pressure on the camper body, slide room or the slide room mechanism. The room may not seal properly and the obstruction may cause fatigue and premature system failure.

NOTE: DAMAGES CAUSED BY MISUSE, ABUSE OR DUE TO NEGLECT, BY FAILING TO FOLLOW CORRECT SLIDE ROOM PROCEDURES, ARE NOT WARRANTY ISSUES.

'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

SECTION 6 Slide Room Operation

Before troubleshooting the system or contacting an authorized Palomino RV Service Center, be sure the battery is fully charged and there is no obstruction to room movement.

Electrical Troubleshooting

There are no field serviceable parts in the motor or control system, therefore electrical trouble- shooting and service by the owner is limited to thorough checking of wiring and connections, checking the fuse at the fuse box and proper battery maintenance. Contact your Palomino RV dealer for any other service requirements.

SECTION 7 Plumbing

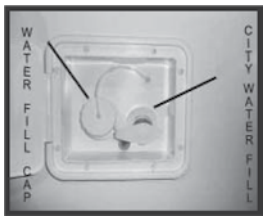
PLUMBING

Water Pump

The truck camper plumbing system has the dual ability to be self contained with onboard storage, or to use facilities provided by an external pressurized source. The fresh water system consists of those items which are used to deliver water for your use, while the waste water system is made up of the drains and tanks which store and remove used water. Components of the plumbing system consist of strong, lightweight, corrosion resistant materials. By following the instructions outlined here, you can expect efficient operation with minimum maintenance.

Fresh Water

Potable (fresh water) is supplied by either the fresh water tank aboard the unit or from an outside source, connected through the city water connection. When using the fresh water tank, the water is pumped through the water lines by means of the water pump. When utilizing an exterior source, such as a campsite water supply, the pump is not needed as the water is already pressurized and will flow through the water supply lines within the trailer.



External Hook-Up

Water provided from outside the recreational vehicle is pressurized by the system from which it is delivered. When you connect your recreational vehicle to an outside source, the fresh water tank and the water pump are kept separate from the remainder of the system by in-line check valves.

CAUTION DO NOT TURN THE PUMP ON IF THE FRESH WATER TANK IS EMPTY. DOING SO COULD CAUSE DAMAGE TO THE PUMP OR BLOW A CIRCUIT.

Attaching to an Outside Source of Water

1.) Remove the cap from the fresh water inlet on the side of the truck camper.

2.) Attach one end of the fresh water hose to the outside source of water.

3.) Connect the other end of the hose to the camper city water inlet.

4.) Turn on the outside source of water. Gradually open the hot & cold water at the sinks and tub to clear air from the lines.

5.) Close the faucets when the water is flowing freely.

Water Pump

The pump is not equipped with a dry tank shut-off switch. Turn the pump switch OFF if water in tank becomes depleted or when system is not in use. The pump operates when water pressure within outlet plumbing drops below a predetermined pressure. A drop in pressure occurs when a faucet of a toilet valve is opened. When the faucet is closed the pump shuts off as soon as the system is re-pressurized.

Turn the pump ON to pressurize the water system. When the faucet is initially opened, the water may sputter for a few seconds. This is normal and no cause for alarm. The water flow will become steady when all air is bled from the water lines. If a faucet is opened part way, allowing water to flow slowly, the pump may pressurize the plumbing faster than the water is being released, causing the pump to cycle on and off.

A built-in check valve prevents back flow and protects the pump and fresh water tank from excessive city water system pressures. The pump operates at 2.8 GPM and 44 PSI. At free flow, the pump draws approximately 4 amps. A fuse in the power center protects the water pump circuit.

When traveling, always turn OFF the water pump. This will reduce the possibility of water flowing during travel. If the pump cycles on and off when no water is being used, you

'CAUTION' indicates a hazardous situation which, if not avoided, could result in vehicle damage or minor to moderate injury.

may have a partly open faucet, a leak in the water system or an empty water tank.

NEVER ATTEMPT TO SERVICE THE WATER PUMP WITHOUT FIRST TURNING OFF THE POWER, AND OPENING ALL FAUCETS, TO RELIEVE PRESSURE IN THE WATER SYSTEM.

Consult the installation and operation manual provided with the Palomino RV owner's information packet for more details.

Water Tank Fill

The fresh water system should be sanitized at the initial filling, after a period of storage or if contaminated. See "Sanitize Fresh Water System" in this section. Filling the fresh water tank:

1.) Close water tank drain petcock located at the rear or rear side of the camper.

2.) Remove cap on fresh water fill inlet.

3.) Using a 3⁄8" hose adapter, fill the water tank through the exterior fill spout slowly at a low volume until water overflows out the vent. Do not force water into spout since air in the tank must be released during filling. Do not put the potable water hose into the mouth of the fill.

4.) Set pump control switch to ON.

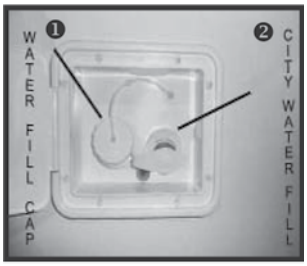
5.) Open each faucet one by one until water flows evenly, and no air bubbles are evident.

6.) Top off water tank through the exterior fill spout to replace water used in filling the water heater and purging the water lines of air.

7.) Replace the cap and lock the access door.

City Water Connection

The city water inlet connection is located under the roadside overhang. NOTE: Due to difference in campground city water pressure, consider purchasing a pressure regulator to protect your camper from possible damage due to excessive water pressure.



❶ FILL CAP, USED FOR FILLING TANK WITH FRESH WATER

❷ CITY WATER FILL CONNECTS TO CAMPSITE WATER

To supply city water to your camper's water system and bypass the water pump:

1.) Attach a potable water hose (a hose suitable for conducting drinkable water) to the exterior city water inlet connection.

2.) Pump switch should remain in the OFF position.

3.) Open each faucet until water flows evenly.

Water System Drain

If the water system will be out of service for more than one week, it should be drained. This will prevent algae and bacteria contamination of your fresh water system. To drain the water system:

1.) The camper should be level and pump control switch in the OFF position.

2.) Open all faucets and showerhead.

3.) Open water tank drain valve.

4.) Open water line low point drains usually located in or under shower area.

5.) Open water heater drain and relief valves.

FRESH WATER SYSTEM

Sanitize the fresh water system and plumbing at initial use, and at least once a year and when the camper sits for a prolonged period. This will help keep the tank and lines fresh and will discourage the growth of bacteria and other organisms that can contaminate the water supply. Rinse the tank with a chlorine/fresh water solution as follows:

1.) Drain water system.

2.) Prepare a chlorine solution with one gallon of water and 1⁄4 cup household bleach.

3.) Pour one gallon of solution for each 15 gallons of tank capacity, into fill spout.

4.) Fill tank with fresh water.

5.) Open each faucet and water heater relief valve until water flows evenly.

6.) Set pump switch to OFF.

7.) Allow solution to stand for 3 hours.

8.) Drain and flush with fresh water.

9.) To remove any chlorine taste or odor, fill tank with one quart vinegar to 5 gallons water. Allow solution to remain in tank several days if possible.

10.) 1Drain and flush with fresh water.

Water Filter

An in-line water filter attached to the inlet side of the water pump, filters dirt, mineral scale, or organic matter out of the fresh water system. If you suspect a clogged filter, it is easily removed and cleaned. (For additional water filter information, see Care & Maintenance section at the end of this manual.)

Shower

The showerhead is removable for hand-held use and equipped with a water flow control device to allow you to conserve water while showering. After showering, there may be some water discharge at the sink faucet. This water is

draining from the shower hose through an anti-siphon valve in the faucet and is normal.

NOTE: FOR YOUR PROTECTION, THIS FAUCET IS EQUIPPED WITH A VACUUM BREAKER, BACKFLOW PREVENTER, TO HELP PREVENT CONTAMINATION OF YOUR POTABLE WATER SUPPLY. THE WATER IN THE HAND-HELD SHOWER HOSE WILL DRAIN THROUGH THIS VACUUM BREAKER WHEN THE FAUCET IS TURNED OFF. THIS IS NOT A LEAK. THE DRAINAGE IS EVIDENCE THAT THE VACUUM BREAKER IS FUNCTIONING PROPERLY.

Due to design precautions, hand held shower heads, when in the "hold" position, must have a built- in leak rate of not less than 1 gallon per 30 minutes of time. This leakage is not a defect but is an attempt to reduce the possibility of scalding accidents due to temperature changes from fluctuating water pressure.

Exterior Wash Station

The exterior wash station is located in the service center on the roadside compartment. It uses water from the fresh water tank or, if connected, city water. The showerhead is equipped with a flow control valve, for water conservation. The flow control valve is not a permanent shutoff. After use of the shower, the water must be shut off at the control valves or damage could occur to the showerhead and/or hose. For severe weather camping, by-pass valves are provided, to turn the water OFF to the exterior.

WASTE SYSTEM

The waste water system in your camper consists of sinks, shower, toilet plumbing, drain and vent lines, "gray water" holding tank, and "black water" holding tank. The holding tanks make the system completely self-contained and allow you to dispose of wastewater at your convenience. A flexible sewer hose, used to connect the holding tank outlet to the inlet of an approved wastewater dump station or sewer system, is helpful, and can be found at most RV stores.

The holding tanks are seamless, and constructed from plastic that will not corrode. On most units with dual tanks, one tank collects toilet waste and the other holds liquid waste from the sinks and shower. Drain the waste tank only at an approved site.

NOTE: IN EXTREMELY COLD WEATHER, NON-TOXIC ANTIFREEZE SHOULD BE ADDED TO BOTH TANK CONTENTS, TO PROVIDE THE MAXIMUM PROTECTION.

Fresh Water Flush Toilet

Your camper is equipped with a marine-type recreational vehicle toilet, which is especially designed to operate with minimum water usage. The flushing mechanism, either a hand-operated lever or foot petal, allows a valve in the bottom of the bowl to open, permitting the contents to be flushed into the holding tank below. A stream of water under pressure from the camper's water system swirls around the bowl, cleaning and flushing the contents. Most models have two levers, each working independently of the other so the bowl can be filled with water prior to use. For additional information, please refer to the operating manual supplied with the toilet.

NOTE: THE TOILET REQUIRES A WATER SUPPLY FOR PROPER USE. THIS CAN BE FROM EITHER A CITY WATER HOOKUP, IF AVAILABLE, OR FROM THE ON BOARD FRESH WATER TANK SUPPLY. THE 12-VOLT WATER PUMP SWITCH MUST BE IN THE ON POSITION WHEN USING WATER FROM THE TANK.

Black Water Holding Tank

This holding tank must be primed with 2 gallons of water and one odor control chemical package at each initial use. Add more odor control chemical if needed, until dumping is required. Refer to the chemical package available at most RV outlets for specific instructions.

Dumping The Holding Tanks

The holding tanks terminate in a valve arrangement which permits each tank to be dumped separately, or together. The valves are called 'knife valves'. A blade closes the opening in the sewer drain pipes. The blade is connected to an extension handle, that is pulled to release the contents of the tank(s).

Holding Tank Use

- During self-containment use, the sewer outlet line should be securely capped and valves closed to prevent leakage of waste material on the ground or pavement.
- Holding tanks are enclosed sewer systems and as such, must be drained into an approved dump station. Both black and gray water holding tanks must be drained and thoroughly rinsed to prevent accumulation of harmful or toxic materials.
- Dump the holding tanks only when they are about 2⁄3 full. If necessary, fill the tanks with water to 2⁄3 full. This provides sufficient water to ensure complete flushing of waste material into the sewer line. Whenever possible, dump the holding tanks before traveling.
- The holding tanks outlet is set up to be used with a removable fitting that locks onto the outlet with a clockwise twist. The sewer drain hose is clamped on this fitting when you need to drain the holding tanks. When you are operating self-contained, or you store the camper, install the protective cap in place of the removable hose.
- The sewer (dump) hose is compressed and stored in the camper's hose carrier.

Draining The Holding Tanks:

- Attach the sewer hose to the dump outlet.
- Extend the hose and insert the hose end into the sewer or dump station inlet, pushing it firmly into the opening to be secure. In some cases, adapters may be necessary between the hose and inlet.
- Arrange the sewer hose so it slopes evenly and is supported to maintain the slope.
- Dump the black water holding tank first. Grasp the handle of the black water knife valve firmly and slide the valve open with a steady pull. Allow enough time for the tank to completely drain.
- Rinse and flush the tank and drain hose through the toilet with a bucket of water or a hose.
- When the tank flow stops, push the handle in to close the valve.
- Pull the handle for the grey water holding tank. Repeat steps 4 through (To aid in flushing the outlet and drain hose, this tank is dumped last).
- Remove the sewer hose and replace the outlet cap.
- Rinse the sewer hose with fresh water and remove the sewer hose from the dump station.
- Replace sewer or dump station cover(s) and store the sewer hose.

NOTE: TO FACILITATE DRAINING, THE CAMPER SHOULD BE SLIGHTLY HIGHER IN THE FRONT. ALSO RAISE THE PASSENGER SIDE OF THE CAMPER TO ALLOW DRAINAGE TOWARD DRAINS LOCATED ON THE DRIVER'S SIDE.

If you are parked at a site with a sewer hookup, keep the black water knife valve closed, to allow the waste level to build up. The outlet could clog if you leave the knife valve open continually. Run enough water into the tank to cover the bottom. This will aid the break up of solid wastes. The gray water knife valve may be left open.

Holding Tank Care/Maintenance

Since holding tanks don't rely on any sophisticated mechanical devices for their operation, they are virtually trouble-free. The most common problem is clogging.

To Minimize the Possibility of Clogging:

- Keep the black water tank valve closed. Add water to cover the tank bottom after dumping to prevent any waste left behind from solidifying.
- Movement while driving will help liquefy the solids.
- Use only toilet tissue formulated for use in septic tank or RV sanitation systems.
- Keep both knife valves closed and locked, and the drain cap tightly in place when using the system on the road.
- Use only cleaners that are approved for use in septic tank or RV sanitation systems.
- Use a special holding tank deodorant chemical approved for septic tank systems in the black and gray water holding tanks. These chemicals aid the breakdown of waste and make the system much more pleasant to use.
- Do not put facial tissue, paper, grease, ethylene glycol-based or other automotive antifreeze, sanitary napkins or household toilet cleaners in the holding tanks.
- Do not put anything solid in either tank that could scratch or puncture the tank.

If the Drain System is Clogged:

- Use a hand-operated probe to loosen stubborn accumulations.
- Seriously clogged P-traps may require disassembly. Be careful not to over tighten when reassembling.

If the holding tanks valve becomes severly clogged, a hand-operated auger may be necessary. Be ready to close the valve quickly once the clog is cleared. If the seal is damaged during this process, it must be replaced.

NOTE: DO NOT USE MOTORIZED DRAIN AUGERS.

NOTE: DO NOT USE HARSH HOUSEHOLD DRAIN CLEANERS.

APPLIANCES

Due to variances in floor plans and available space in your camper, Palomino RV is continuously changing and upgrading appliances for better usage and for your convenience. For that reason,the style you have may not be exactly what is described in this manual. In this manual you will find general information for the operation of the appliances. For more detailed information, please refer to the appliance manuals provided to you in your Palomino RV Owner's packet. (If you don't have the manual you need, or need a replacement, many times you can find it on the internet. Be sure you have the model number handy so you get the most accurate information.)

NOTE: THE INFORMATION IN THE MANUFACTURERS' MANUALS SUPPLIED WITH YOUR CAMPER WILL BE FOR THE SPECIFIC ITEMS INSTALLED IN YOUR CAMPER.

NOTE: IF THE INSTRUCTIONS/INFORMATION IN THIS MANUAL CONFLICT WITH THE INFORMATION IN YOUR APPLIANCE MANUALS, ALWAYS FOLLOW THE APPLIANCE MANUFACTURER'S DIRECTIONS.

Each appliance in your RV is warranted by its' manufucturer. It is very important that you review all the literature provided in the Owner's packet that came with your camper. Fill out and return all warranty registration cards as required by the appliance manufacturers. If you have any questions regarding the operation of the appliances in your unit, contact your selling dealer. Also, please notify your dealer of any shortage of literature you may have.

It is important that you read all the manufacturer's information provided, regarding both operation and maintenance of the appliance. Pay close attention to all safety precautions given and follow them closely. Keep all literature, including this manual, with the camper for easy reference. If service on any appliance is required, contact your dealer or an authorized service representative of the appliance manufacturer. Most appliance manufacturers have toll free service telephone numbers for your convenience. You will find some listed in the front of this manual under the heading, COMPONENT MANUFACTURERS.

Lighting Propane Appliances

Air trapped in the propane lines may delay the initial lighting of any appliance. It could take several seconds or minutes for the propane to reach the appliance. To purge some of the air from the propane system, first light a burner on the range. The other appliances will then light more quickly.

The first time the furnace or oven is operated, paints and oils used in manufacturing, may generate a small amount of smoke or fumes. If this occurs, open doors and windows to ventilate the camper. These materials should burn off in fairly quickly.

NOTE: IF THESE INSTRUCTIONS DIFFER FROM THOSE OF THE APPLIANCE MANUFACTURERS, ALWAYS FOLLOW THE APPLIANCE MANUFACTURER'S LIGHTING AND OPERATING INSTRUCTIONS.

NOTE: NEW PROPANE TANKS OR EMPTY TANKS THAT HAVE BEEN STORED WITH THE VALVE OPEN FOR A PERIOD OF TIME, MUST BE PURGED OF AIR AND MOISTURE, PRIOR TO FILLING.

RANGE/OVEN

To Prevent Fire or Smoke Damage

1.) Keep area around appliance clear and free from combustible materials, gasoline, and other flammable vapors and materials.

2.) If the range is installed near a window and the window is open, take precaution to prevent curtains from blowing over burners.

3.) Never leave items unattended on the cooktop. Hot air from the vent may ignite flammable items and could increase pressure in closed containers, which may cause them to burst.

4.) Avoid use or storage of aerosol cans near an appliance. Many are EXPLOSIVE when ex- posed to heat and may be highly flammable.

5.) Do not leave plastic items on the cooktop as they may melt or soften. If this occurs, dis- card the container and contents, as the food could be contaminated.

⚠WARNING IT IS NOT SAFE TO USE COOKING APPLIANCES FOR COMFORT HEATING.

⚠WARNING **DO NOT** USE EXHAUST FAN WITH FILTER SCREEN REMOVED. EXPOSED FAN BLADES POSE AN INJURY THREAT. DIRT AND GREASE DEPOSITS WHICH ARE NORMALLY TRAPPED BY THE FILTER MAY LODGE IN THE RANGE HOOD EXHAUST DUCT, CREATING A FIRE HAZARD.

The gas burners and oven use propane gas for fuel. Operations are similar to the range in your home. However, cooking temperatures will vary from home ranges depending on the altitude. Your range may be equipped with a spark igniter for lighting the top burners.

The three (3) burner range is equipped with one (front on some models, right burner on others) high output burner

when additional heat is needed. On a two (2) burner range, both burners are standard output.

All propane ovens are equipped with a pilot light that must be lit before using the oven. Be sure to turn the pilot OFF when the oven is not being used or before traveling or refueling.

⚠WARNING BEFORE TURNING ON THE MAIN PROPANE SUPPLY, BE SURE ALL BURNER AND OVEN CONTROL KNOBS ARE IN THE OFF POSITION.

A warning label has been located in the cooking area to remind you to provide an adequate supply of fresh air for combustion. Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliance(s) will avoid danger of fire. asphyxiation, or carbon monoxide poisoning.

⚠WARNING IT IS ESPECIALLY IMPORTANT THAT COOKING APPLIANCES NOT BE USED FOR COMFORT HEATING AS THE ABOVE LISTED DANGERS ARE GREATER WHEN THE APPLIANCE IS USED FOR LONG PERIODS OF TIME.

⚠WARNING NEVER USE PORTABLE FUEL-BURNING EQUIPMENT, INCLUDING WOOD AND CHARCOAL GRILLS AND STOVES INSIDE THE VEHICLE AS A FIRE OR EXPLOSION MAY RESULT.

Lighting Surface Burners

The surface burners will feature either matchlit ignition or Piezo pilotless ignition. Be sure all control knobs are in the 'OFF' position before supplying gas to the appliance. Be sure the main LP gas supply is on before lighting the burner.

⚠WARNING IF THE BURNER DOES NOT LIGHT WITHIN 4 SECONDS, OR IF THE FLAME SHOULD GO OUT DURING COOKING, TURN THE BURNER OFF. IF GAS HAS ACCUMULATED AND A STRONG GAS ODOR IS DETECTED, OPEN A WINDOW AND WAIT 5 MINUTES FOR THE GAS ODOR TO DISSIPATE BEFORE RELIGHTING THE BURNER.

NOTE: IF THE APPLIANCE HAS NOT BEEN OPERATED FOR A PERIOD OF TIME, THE SURFACE BURNERS MAY BE DIFFICULT TO LIGHT, AS AIR MAY HAVE ACCUMULATED IN THE GAS LINE.

⚠WARNING DO NOT TURN THE OVEN OR BURNER CONTROL KNOBS ON, ALLOWING GAS TO ESCAPE BEFORE LIGHTING A MATCH OR AN USING AN ELECTRONIC IGNITING DEVICE.

To Bleed Air from Line

- Hold a lighted match next to the burner
- Turn the surface burner control knob to the LITE position
- When the burner lights, turn the knob back to the OFF position
- Depending upon your model, follow procedure for either 'Matchlit' ignition or 'Piezo' ignition.

Matchlit Ignition

1.) Place a pan on the burner grate.

2.) Hold a lighted match next to the desired surface burner head.

3.) Push in and turn the surface burner control knob to the LITE position.

4.) When the burner lights, adjust the knob between HI and LOW to select the desired flame size.

5.) After cooking, turn the surface burner knob to the 'OFF' position.

Piezo ignition

1.) Place a pan on the burner grate.

2.) Push in and turn the surface burner control knob to the LITE'position. (IMPORTANT: Only light one surface burner at a time.)

3.) Immediately, rotate the TOP BURNER IGNITOR knob to the right (clockwise) several clicks until the burner lights. The burner should light within 6 clicks or one full rotation of the knob.

4.) When the burner lights, adjust the surface burner control knob between HI and LOW to se- lect the desired flame size.

5.) After cooking, turn the surface burner control knob to the OFF position.

Bright Idea

TIPS:

If the piezo ignitor is not functioning:

- Be sure all controls are in the OFF position
- Hold a lighted match to the desired surface burner head (DO NOT turn the control knob ON and allow gas to escape before lighting the match.)
- Push in and turn the surface burner control knob to the LITE position
- When the burner lights, adjust the knob between HI and LOW to select the desired size
- After cooking, turn the knob to the OFF position

'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Shutdown Instructions

CAUTION WHEN THE RECREATIONAL VEHICLE IS NOT IN USE OR WHILE TRAVELING, TURN ALL KNOBS TO THE **OFF** POSITION AND TURN OFF THE MAIN GAS SUPPLY.

CONVECTION OR MICROWAVE OVEN

Please read all instructions that come with the convection or microwave oven before use. The oven should never by operated empty. When operating on generator power, (if equipped), usage is limited. For example, if the roof air conditioner is operating, there may not be enough power to operate the microwave. If this occurs, turn the air conditioner control to the FAN ONLY setting to use the microwave.

REFRIGERATOR

Most RV refrigerators operate on the absorption system. In an absorption refrigeration system, ammonia is liquefied in the finned condensor coil at the top rear of the refrigerator. The liquid ammonia then flows into the evaporator (inside the freezer section) and is exposed to a circulating flow of hydrogen gas, which causes the ammonia to evaporate, creating a cold condition in the freezer. When starting the refrigerator for the first time, the cooling cycle may require up to four hours of running time before the cooling unit is fully operational.

Leveling

Leveling is one of the requirements for proper operation with absorption refrigerators. Any time the vehicle is parked for several hours with the refrigerator operating, the vehicle should be leveled to prevent loss of cooling. If the refrigerator is operated when it is not level and the vehicle is not moving, liquid ammonia will accumulate in sections of the evaporator tubing. This will slow the circulation or in severe cases, completely block it, resulting in a loss of cooling. When the vehicle is moving, the rolling and pitching movement of the vehicle will help to keep the liquid ammonia from accumulating.

Auto Mode

When on AUTO mode, the control system will automatically select between 120 volt (AC) and LP gas, or on a 3 way system, DC current. AC (electricity) has priority over GAS, and DC current has priority over both. (If the CHECK indicator lamp is on, the lamp will not turn off until the ON/OFF button is pressed OFF and then ON again.)

Gas Mode

This mode provides LP gas only. The control system activates the ignition system and attempts to light the burner for a period of approximately 45 seconds, at 2 minute intervals. If unsuccessful, the CHECK indicator lamp will illuminate.

If the CHECK indicator lamp is illuminated on the control panel, the controls have failed to ignite the burner. To restart an ignition attempt when the CHECK lamp is illuminated or to turn off the CHECK lamp, press the ON/OFF button to OFF and back to ON again. The control system activates the ignition system and makes three attempts to light the burner. If, after the 3 attempts, it fails to ignite, restart the ignition sequence by again pressing the ON/OFF button to OFF and then back to ON.

DC Mode

When DC mode is chosen, the refrigerator will operate by pulling power from the battery/s. In most cases, the refrigerator controls will work down to 9.6v DC, causing a drain on the battery/s.

NOTE: WHEN IN AUTO MODE, IF THE REFRIGERATOR FAILS TO OPERATE, REFER TO THE MANUFACTURERS' USER MANUAL, PROVIDED WITH THE PALOMINO RV OWNER'S PACKET.

Purging Air From the Lines

If the refrigerator has not been used for a long period of time or if the LP tanks have just been refilled, air may be trapped in the supply lines. Purge the air from the lines by pressing the ON/OFF button to OFF and then back to ON, 3-4 times. If repeated attempts fail to start the LP gas operation, check to make sure the LP tanks are not empty and that all manual shutoff valves in the lines are open.

⚠WARNING **DO NOT** CONTINUE TO RESET GAS OPERATION IF THE CHECK INDICATOR LAMP CONTINUES TO BE ILLUMINATED AFTER SEVERAL TRIES. IF THE PROBLEM PERSISTS, PLEASE CONTACT A SERVICE CENTER FOR ASSISTANCE.

FURNACE

NOTE: TO PROPERLY OBSERVE BURNER OPERATION, THE FURNACE MUST BE REMOVED. THIS SHOULD ONLY BE DONE BY YOUR DEALER OR A QUALIFIED SERVICE CENTER.

⚠WARNING BEFORE OPERATING THE FURNACE CHECK THE LOCATION OF THE FURNACE VENT TO BE SURE IT WILL NOT BE BLOCKED BY THE OPENING OF ANY DOOR ON THE CAMPER (OR BY EXTERIOR ITEMS SUCH AS A BUSH OR A TREE.)

'CAUTION' indicates a hazardous situation which, if not avoided, could result in vehicle damage or minor to moderate injury.
'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Bright Idea

Tips to follow during the heating season to assure continued safe operation of the furnace.

1.) Inspect furnace venting. Venting must be free of obstruction and soot.

2.) Periodically observe the main burner flame to insure it is burning with a hard blue flame. If the flame appears yellow or lazy, shut the furnace down. The burner may need to be cleaned or replaced.

3.) Keep the furnace area clear of any combustible material. gasoline, or other flammable vapor and liquids.

FIRE OR EXPLOSION HAZARD

WARNING

WHEN REFUELING OR PARKED NEAR GASOLINE PUMPS, SHUT OFF ALL LP GAS APPLIANCES. FAILURE TO HEED THIS WARN- ING COULD CAUSE A FIRE OR EXPLOSION RESULTING IN DEATH OR SEVERE PERSONAL INJURY AS WELL AS DAMAGE TO THE CAMPER AND/OR SURROUNDING AREA.

WARNING **DO NOT** INSTALL SCREENS OVER THE VENT FOR ANY REASON. DOING SO CAN CAUSE UNSAFE FURNACE OPERATION.

WARNING SHOULD OVERHEATING OCCUR OR THE GAS SUPPLY FAIL TO SHOUT OFF, SHUT OFF THE MANUAL GAS VALVE TO THE APPLIANCE BEFORE SHUTTING OFF THE ELECTRICAL SUPPLY.

WARNING BE SURE THE FURNACE AND ALL IGNITION SYSTEMS ARE 'OFF' DURING REFUELING AND WHILE VEHICLE IS IN MOTION.

WARNING READ THE FURNACE MANUFACTURERS USERS MANUAL. IF THE INFORMATION IN THE MANUAL IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE.

Bright Idea

If You Smell Gas:

- Extinguish any open flame.
- Evacuate all persons from the vehicle.
- Shut off the gas supply at the gas container or source.
- **Do not** touch any electrical switch or use the phone or radio in the vehicle.
- **DO NOT** start a generator.
- Contact the nearest gas supplier or qualified service center for repairs.
- If you can not reach a gas supplier or qualified service center, contact the nearest fire department.
- **DO NOT** turn on the gas supply until the gas leak(s) has been repaired.

WARNING YOU, AS THE OWNER/USER, SHOULD INSPECT THE FURNACE MONTHLY DURING THE HEATING SEASON FOR PRESENCE OF SOOT ON THE VENT. THE PRESENCE OF SOOT INDICATES INCOMPLETE COMBUS- TION. OPERATING THE FURNACE UNDER THIS CONDITION COULD LEAD TO SERIOUS PROPERTY DAM- AGE, PERSONAL INJURY OR LOSS OF LIFE. IF SOOT IS OBSERVED ON THE VENT, IMMEDIATELY SHUT THE FURNACE DOWN AND CONTACT A QUALIFIED SERVICE AGENCY.

HOT WATER HEATER

Hot water heaters require very little care. However, the most common cause of problems with your water heater would be initiating operation before the tank is filled with water. Even running it for a brief period of time without water will burn out the electric heating element. Prior to operating the RV water heater for the first time, be sure there is water in the heating tank. Do so by first checking to see that the water heater by-pass valve, if installed, is open to let water flow into the tank. Next, connect the RV to a water source or turn on the onboard water pump. Open a hot-water tap and wait till water is flowing with no air in the line. Once water is flowing from the tap the heating tank is full and it is safe to operate the water heater.

WARNING DO NOT STORE OR USE GASOLINE OR OTHER COMBUSTIBLE MATERIALS OR LIQUIDS NEAR OR ADJACENT TO THE HEATER OR ANY OTHER APPLIANCE. CAREFULLY FOLLOW THE WATER

'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

HEATER MANUFACTURERS DETAILED INSTRUCTIONS REGARDING THE CORRECT OPERATION OF YOUR WATER HEATER. FAILURE TO DO SO COULD VOID YOUR WARRANTY.

Automatic Shut-Off

Most installed water heaters are equipped with a high temperature limit switch as a safety feature. This cut-off device will cause appliance shut down if the water temperature reaches above 180 degrees 0F. Allow the water to cool to about 110 degrees 0F then reactivate the electric heating element by pushing the reset button.

If the limit switch should fail, the water heater is equipped with a pressure relief valve. The valve is designed to open (causing a slow drip), if the temperature of the water reaches 210 degrees 0F, or if there is excessive pressure.The valve will close automatically once the pressure falls below 50 PSI. A slow drip indicates the relief valve is functioning properly.

Water Odor

Odor from the water is not a service issue. Many water supplies contain enough sulphur to produce a 'rotten egg' odor. It is not harmful, only unpleasant. The solution is to chlorinate the water. You may add about 6 ounces of common household liquid bleach per 10 gallons of water in the tank.

Run the chlorinated water throughout the system by opening each faucet one at a time until you smell the chlorine. Let the camper sit for a few days and the chlorine should take care of the problem. However, you must then remove the chlorine by flushing the system with fresh water. You may need to do this more than once, If this is a frequent occurrence, consider adding a filtering system as a prevention. If the smell continues to occur, you may need to replace the anode rod.

Turn Off Water Heater

1.) Turn the switch to the OFF position. (The switch is located on or near the monitor panel.)

2.) Turn off electrical power to the appliance.

3.) Turn off gas supply.

4.) If the camper is to be stored, or if the heater is going to be turned off while subject to freezing temperature, drain the water heater.

Storage and Draining

If your camper will be stored during winter months, drain the water heater to prevent damage from freezing, then:

1.) Turn off electrical power to water heater either at the switch or the breaker.

2.) Shut off gas supply to water heater.

3.) Turn off water pump on main water system.

4.) Open both hot and cold water faucets.

5.) Remove anode rod from tank.

Refer to Section 9 of this manual, regarding draining and/or winterizing your water system.

Winterizing

If your water heater plumbing system is equipped with a bypass kit, use it to close off the water heater, drain it completely and leave it closed, (in the bypass position). If you are introducing anti-freeze into the system, be aware that it can be very corrosive to the anode rod causing premature failure and leaving heavy sediment in the tank. If the plumbing system is not equipped with a bypass kit and you intend to winterize by adding antifreeze, remove the anode rod (storing it for the winter) and replace it with a 3/4" drain plug. For more information regarding this process, contact your dealer.

WATER PUMP

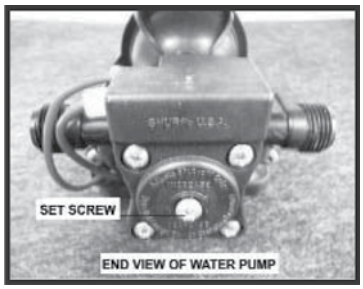
The water pump supplied with your RV is designed to deliver smooth, consistent flow of water at all ranges of operation, while drawing only a low current.

Water Pump

Water Pump Operation

Pump cycling may be caused by excessive pressure created by one or more of the following within a plumbing system:

- Low flow from partially open faucet.
- Water filters not on separate feed lines.
- Clogged water filters.
- Restrictive elbows and valves as possible in the first 2 feet after the pump.
- Flow restrictors in faucets and showerheads.
- Long lengths of small I.D. (inside diameter) lines.
- If replacing pipe/tubing, be sure it is at least 1/2" I.D. for main lines.



To minimize cycling, consider removing plumbing restrictions or installing an accumulator after the pump. Cycling should be minimized to prevent pulsing flow and to achieve maximum pump life. If the pump is cycling rap- idly, increase the setting by turning the screw clockwise 1 1⁄2 turns maximum until the pump operates for 1 second, with at least 2 seconds 'off time'.

DANGER **DO NOT** USE AUTOMOTIVE ANTIFREEZE TO WINTERIZE POTABLE (DRINKABLE) WATER SYSTEMS. SUCH SOLUTIONS ARE HIGHLY TOXIC. INGESTION MAY CAUSE SERIOUS INJURY OR DEATH.

THERMOSTAT - HEATING AND COOLING

Many factors influence the ambient temperature inside your RV. The purpose of a thermostat is to keep the air temperature at the level you have selected. To avoid over-stressing your heating and cooling appliances, there are several things you can do to help manage the inside temperature.

Setting the temperature and leaving the thermostat on AUTO will allow the device to detect changes in temperature. Lowering the temperature at night or when leaving the camper, makes the furnace work harder and run longer to reach and sustain the comfortable temperature you originally chose. It's best to set the temperature on AUTO and allow the thermostat to do its' job.

Heating

1.) Check to be sure there are no gaps in windows or doors that would allow loss of heat.

2.) Park the truck camper so the front or rear of the unit takes the brunt of wind force.

3.) Have your furnace checked to insure it is operating at its' highest capacity.

4.) Keep all vents free of obstruction.

Cooling

1.) Park the camper in a shaded area.

2.) Use window shades, blinds or curtains.

3.) Keep windows and doors shut or minimize usage.

4.) Avoid the use of heat producing appliances.

5.) Installing window awnings will reduce heat gain by removing direct exposure to the sun.

Starting the air conditioner in the morning and giving it a head start on the expected high outdoor ambient temperature, will greatly improve its ability to maintain the desired indoor temperature.

Whether using the HEATING or the COOLING function of your thermostat, condensation is always an issue. Keeping your RV at a constant temperature helps keep condensation at a minimum. For more information on the effects of condensation in your camper, refer to Section 4 in this manual.

TELEVISION

Due to the large selection of televisions used in the manufacture of Palomino RVs, it is impossible to list all of them in this manual. Therefore, below you will find general information that will be applicable to most all televisions. For detailed information regarding the specific television/s installed in your camper, please refer to the television manufacturer's users guide included in your Palomino RV owner's packet.

Your truck camper may be prewired for cable. Televisions run on 12 volt and 110 volt power. Your coach must be connected to shore power, have the generator (optional) running or the inverter (optional) connected for the TV to work.

Television Antenna

The optional roof mounted antenna control is located in the ceiling of the lounge or kitchen area, and/or in the bedroom. The antenna can only be used when the camper is parked.

To Raise the Antenna

Check your parking location for obstructions before raising the antenna. Also be sure the power booster switch is in the ON position.

1.) Crank the HANDLE in the UP direction as indicated by the arrow on the large control knob.

2.) Continue to rotate the handle until you feel resistance (about 13 turns).

3.) DO NOT force the handle beyond the point that resistance is felt.

4.) When the antenna is up, fine tune the signal by grasping the large rotating KNOB, pulling it slightly down and turning it until the clearest picture and sound are available.

5.) To lower the antenna, rotate it with the large control knob until the pointer on the control knoblines up with the pointer on the ceiling plate. The antenna can now be lowered by cranking the handle in the down direction. Continue to rotate the handle until you feel resistance (about 13 turns.) To be sure the antenna is working properly, tune the TV receiver to the nearest station and rotate the antenna for the best picture and sound. Next, turn off the switch on the power booster.

DANGER! Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

SECTION 8 Appliances

Be sure to turn off the power booster when not is use. The booster can drain the battery if allowed to remain continuously activated. There is a red indicator light on the power booster which is illuminated when it is on.

AIR CONDITIONER

Your camper may be equipped with an optional roof mounted air conditioner. It operates on 110 volt power and is located in the living/dining area of the camper and also in the bedroom area of some models. Even if purchased without the air conditioner option, the camper may come factory equipped with the wiring and necessary bracing for the AC. Check with your dealer if additional information is needed.

Refer to the air conditioner manufacturer's users manual for complete operating and service instructions. Efficiency when using the air conditioning can be increased by closing all windows and curtains and parking the recreational vehicle in the shade. Air conditioning consumes a large portion of the electric power available in the recreational vehicle and efficient operation can be an important consideration. Even though your truck camper is equipped with 30 amp service, be aware that some campgrounds may offer less than 30 amp service. Check with the campground before utilizing excessive power that may create a fire hazard or trip breakers in either the truck, camper, or the outside power source.

NOTE: ALWAYS TURN OFF THE AIR CONDITIONER, (AND ALL ELECTRICAL APPLIANCES), BEFORE DISCONNECTING THE CAMPER FROM ITS' 110 VOLT POWER SOURCE.

NOTE: IF YOU COVER THE OUTSIDE PORTION OF YOUR AIR CONDITIONER DURING PERIODS OF STORAGE, BE SURE TO REMOVE THE PROTECTIVE COVER BEFORE REUSING.

CONVERTER/BATTERY CHARGER

The power converter is designed to supply the nominal 12 volt filtered power for all 12 volt operated devices. Although the converter is an excellent battery charger, the converter does not require a bat- tery to be connected to it for proper operation.

NOTE: WHEN INSTALLING A BATTERY/S ALWAYS OBSERVE POLARITY. CONNECTING A BATTERY WITH REVERSE POLARITY WILL BLOW THE POWER CONVERTER OUTPUT FUSES. IF THE 12 VOLT LOAD EXCEEDS THE CONVERTER OUTPUT, THE VOLTAGE WILL DROP TO PREVENT ANY FURTHER INCREASE IN CURRENT. TURNING OFF SOME LIGHTS OR APPLIANCES WILL LOWER POWER REQUIREMENT AND THE OUTPUT VOLTAGE WILL AUTOMATICALLY RESTORE.

Average charge rate will depend on several variables such as, condition of the battery(s), temperature, and the length of time the battery(s) are connected to the converter.

SECTION 9 Care & Maintenance

GENERAL MAINTENANCE

Periodic maintenance and cleaning of your truck camper is necessary to retain the dependability, safety and appearance that will provide you with many miles of trouble free operation, as well as protecting your investment.

Keep accurate records of maintenance, service performed and follow all owner obligations, as required, to keep your warranty in force.

It is also important to note that operating conditions will effect service timetables. Driving in extreme conditions such as heavy dust, continuously making frequent short trips which necessitates many starts and stops, means that the length of time between service appointments will be shortened. Discuss service timetables with both your Palomino RV dealer and the truck service representative.

Preventative maintenance will pay for itself many times over by catching or preventing problems before they occur. Many repair costs are greatly increased by ignoring problems when they are small ones, allowing them to build into larger problems and possibly voiding your warranty due to , misuse, abuse or neglect. If left unattended, those neglected problems may also effect other areas of your camper, and those damages are not warrantable items.

Exterior

Some exterior parts of your camper are made of fiberglass, metal, rubber and plastic materials. The finish on these parts is durable, but not indestructible. Any material or finish will deteriorate over time. Exposure to sunlight, moisture, and airborne pollutants can chemically alter the com- position materials and cause dulling and fading of the finish. Changes in the finish, due to weathering, are generally cosmetic, if found early. (Cosmetic damage is damage which occurs only on the surface of the part and does not affect the parts' strength or function).

The best insurance against these effects is routine maintenance. If the camper finish is not washed and waxed thoroughly, the surface can deteriorate very rapidly. The following guidelines can help you reduce these weathering effects:

- Wash the exterior at least once a month using a mild liquid detergent. Never use strong abrasives to clean the exterior surfaces.

- Wash your camper in a shady area, not in direct sunlight. If the camper is parked in the sun, move it into the shade and let the exterior cool down before you start. Chemical solvents and strong cleaners can damage the siding, roofing, metal and plastic trims on your camper. Rinse the camper thoroughly with cool water to remove loose dirt. Fill a bucket with cool water. Mix in a mild detergent, such as dishwashing liquid or a product made especially for auto or RV washing. Wash the camper using the water and mild detergent solution and soft-bristle brush, sponge, or soft cloth. Start at the top and work your way down. Rinse frequently.
- Check the surface for road tar, tree sap, etc. Remove these stains with turpentine or tar remover
- Rinse immediately so it does not harm the finish. Remember to rewax these areas.
- After washing and waxing, dry the exterior with a chamois or soft towel. Allowing it air-dry will cause water spots and dulling. While drying your camper, inspect around the seals and repair as necessary.
- Wax the exterior at least once a year, preferably twice. Use automotive waxes or cleaners.

Follow the directions on the container. Some cleaners and waxes are recommended for use on only certain types of surfaces. Exterior streaking is reduced with more frequent waxing.

- **DO NOT** use abrasive cleaners or rubbing compounds. Always wash and dry the entire camper before waxing. Rubbing alcohol can be used on caulking that show signs of yellowing.
- Clean the roof at least four (4) times a year. For normal cleaning, use a mild liquid detergent and a soft nylon brush or sponge. Do not use solid or granulated cleaners, as they will mar the finish. For more difficult stains, use a cloth dampened with mineral spirits. DO NOT use mineral spirits in a large area or allow it to soak into the roof membrane.

Seals and Adhesives

It is important to maintain the seals and adhesives to prevent moisture from entering and destroying camper component parts. While washing your camper, inspect the seals for signs of drying, cracking and wearing. Be aware that weather and road vibration will have an effect on seals, causing damage. If you are unsure what to look for, have your dealer instruct you regarding the correct method for renewing the seals, or if you prefer, have the dealership inspect and reseal your unit when needed.

⚠WARNING FAILURE TO MAINTAIN SEALS THROUGH REGULAR MAINTENANCE CAN LEAD TO DAMAGE AND MAY BE CONSIDERED ABUSIVE TREATMENT UNDER TERMS OF YOUR RECREATIONAL VEHICLE WARRANTY.

Windows and Doors

Check the seals around the windows regularly. Follow the care and maintenance of window and door

seals and repair as necessary. Be sure windows remain operative by adjusting and lubricating latches and moving parts annually. Also check the condition and operation of door locks, adjusting and lubricating as necessary.

NOTE: MOISTURE CAN ACCUMULATE IN LOCKS AND HINGES OF WINDOWS AND DOORS, CAUSING DAMAGE OR FAULTY OPERATION .DO NOT FORCE THE OPERATION OF THESE COMPONENTS IN

FREEZING WEATHER.

Vinyl seals around windows and doors should be cleaned regularly and kept pliable by using a silicone spray or lubricant. Follow the directions on the product container. Keep screens, exit latches and window slides clean and free of debris. Periodically test the operation of all windows and their components. If you are unsure about the correct methods of lubrication and adjustment, check with your dealer.

⚠WARNING **DO NOT** COVER EMERGENCY WINDOW(S). THESE EXIT WINDOWS MUST REMAIN ACCESSIBLE AT ALL TIMES. BE SURE ALL OCCUPANTS AND GUESTS KNOW WHICH WINDOWS ARE THE EMERGENCY EXIT WINDOWS AND UNDERSTAND HOW TO USE THEM.

ROOF

Twice a year inspection of roof components is necessary to ensure seams and seals are not cracked or worn. Proper maintenance of seals is necessary to keep moisture from entering and causing severe damage such as rot, mold or mildew. If you encounter dry, cracked or weathered seals, reseal or replace as necessary. Check with your dealer for the type of caulking required and correct methods of resealing or replacing.

CAUTION USE EXTREME CAUTION WHEN STORING ITEMS ON THE ROOF. THE ROOF CAN BE VERY SLIPPERY WHEN WET

If a factory installed roof rack and/or ladder are present, the roof has been reinforced. If you have an af- termarket roof rack or ladder, use extreme caution when on the roof. Chances are that your roof has no reinforcement and you may need to use boards across the roof for temporary reinforcement. (Remember to remove the boards when exiting the roof area.)

'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.
'CAUTION' indicates a hazardous situation which, if not avoided, could result in vehicle damage or minor to moderate injury.

TENT MAINTENANCE

In the Bronco Series camper, you must properly maintain the canvas material to prevent leaking.

Tent Material

Tent materials have different characteristics than canvas. To provide you with many years of usage, it is important to seal all stitched areas to prevent water damage.

1.) Set up camper as you would when camping. Be sure all windows are zipped closed.

2.) Remove all cushions and drapes and store them in a dry place.

3.) Saturate all seams with water and check inside the camper for leaks.

4.) Allow the canvas to dry completely, or wipe seams dry with a smooth white cloth before sealing.

5.) Seal all seams with a wax candle or a special recommended seam sealer called 'Plasti-Seam'.

6.) After sealing all stitching with one of the recommended products, replace all cushions and drapes, which were stored.

Care of Your Vinyl Tent

Some tents have the fabric coated with vinyl to make it easier to clean the exterior. Vinyl coated fabric cannot breathe, causing condensation to form on the fabric side. It may appear the tent is leaking. To help eliminate condensation, ventilate the interior by slightly opening the zippered windows.

Condensation

Palomino/Forest River recreational vehicles are built according to government standards regulating the industry and according to RVIA standards, which are even higher than government standards.

Below are some tips for controlling condensation in your camper:

1.) Open roof vent or window when cooking.

2.) Use power vent when bathing or showering.

3.) Use a properly operating humidifier. Vaporizer use should be minimal, if at all.

4.) Turn on the air conditioner for a few minutes in the morning and in the evening, after cooking, bathing, etc.

Condensation is a natural occurence. The amount of condensation will vary with the climate condition, particularly relative himidity. Condensation occurs due to the amount of water vapor present in the air to which each of us add by breathing, bathing, cooking, etc. Water vapor in the air condenses to become liquid and is most noticable on windows, bath mirrors, etc,. Condensation causes dampness, mildew, staining and if unchecked, may cause damage to the interior or personal belongings.

NOTE: CONDENSATION IS NOT A RESULT OF A DEFECT. CONTROLLING CONDENSATION IS A MAINTENANCE ISSUE AND AS SUCH, IS THE RESPONSIBILITY OF THE OWNER. DAMAGE CAUSED BY CONDENSATION, SUCH AS MOLD OR MILDEW, IS DUE TO NEGLECT, AND IS NOT A WARRANTABLE ITEM.

NOTE: ALWAYS VENTILATE AND DRY TENT AS SOON AS POSSIBLE AFTER EXPOSURE TO MOISTURE.

NOTE: TO CLEAN THE EXTERIOR OF YOUR VINLY TENT, USE AUTOMOTIVE VINYL CLEANER. DO NOT USE SOLVENTS AND DETERGENTS TO CLEAN THE VINLY, AS IT COULD CAUSE DAMAGE TO THE FINISH. (CALL YOUR DEALER IF YOU HAVE OTHER CLEANING QUESTIONS.)

BRONCO SERIES CRANK UP LIFT SYSTEM

To ensure your Limited Warranty validation, you must perform, or have performed, a general maintenance inspection. Failure to provide service maintenance is readily recognized and is reflected in the condition of the system.

Inspect and Service Yearly

1.) Clean and recoat lifter posts externally, with a rust prohibitive, non-drying lubricant.

2.) Lubricate springs annually, by cranking roof to UP position. At each junction of telescoping post, lubricate with 90 weight oil, taking care to lubricate the opening between two posts.

3.) To avoid tent damage, remove any excess oil on exterior portion of post.

EXTERIOR GRAHICS

The pressure sensitive vinyl graphics installed on the exterior surface of your camper, require little to no maintenance and should be treated similarly to a painted surface. The following cleaning and maintenance recommendations should be followed to ensure the maximum appearance of your exterior graphics. Wash your graphics with the same solution as noted above for washing the exterior of your camper. Be sure to rinse thoroughly. Avoid High Pressure washing. Test any cleaning solution on a small section of the graphic before using the cleaning solution on a larger surface. A non-abrasive cleaner, suitable for high quality painted surfaces, is recommended. The cleaning solution should be neither high acidic nor highly alkaline. A pH range of 3 to 11 is recommended. The cleaning solution should be free of strong solvents or alcohol. Avoid contact of window cleaners that contain ammonia.

DAMAGE CHECKS

Periodically check the exterior for damage, paying particular attention to the following areas:

- Waste tanks and plumbing lines.
- Propane tanks and assembly.
- Sealant around doors, roof, vents and windows.
- Exterior lighting.

DOORS AND WINDOWS

Lubricate door hinges, locks and window mechanisms periodically with powdered graphite. Clean window frames and tracks to ensure easy operation. Clean the windows, inside and out, with a commercially available glass cleaner. You can also use a mixture of one part white vinegar to ten parts water. This will remove the haze that builds up on the inside of the windows. Use a soft cloth or paper towel to clean all glass.

Clean the seals with a damp cloth or mild detergent every three to six months, taking care not to use strong solvents, as they will damage the seals. A coat of natural silicone lubricant applied after the seal has dried will keep it flexible. This is a good practice for all the rubber seals in your camper. If the camper is exposed to salt air, more frequent lubrication will be required.

JACK BRACKETS

The corner jack brackets need to be inspected each time the camper is to be loaded or removed from the truck. These brackets can loosen and the seals separate during regular use due to rocking, while loading or unloading or while the camper is being stored. Retighten the bolts until they are snug, and reseal the brackets as needed. Do not over-tighten as this can cause the fasteners to become stripped, creating the possibility of loosing the jacks during travel.

CAMPER JACKS

The internal parts of the jacks are permanently lubricated at the factory and do not require any further lubrication. At least once each camping season, fully extend the jacks and clean dirt and grime from outside of the inner tube. Apply automotive polish or wax to the outer tube of the jacks to maintain the appearance.

AIR CONDITIONER

After the first 500 miles, the air conditioner mounting bolts should be checked for tightness . Remove the interior shroud and inspect the four (4) bolts located in the corners of the roof opening.

In addition to securing the air conditioner to the roof, the fasteners also apply pressure to the sealing gasket between the air conditioner and the top of the roof. Loose fasteners could cause water intrusion around the roof opening.

TURNBUCKLES

Each time the turnbuckles are installed, and if they begin to squeak, place a few drops of oil into the turnbuckle barrel at the captive hook end. Lubricating will reduce squeaking, caused when the turnbuckles dry out.

It is important that the turnbuckles be kept clean and protected from corrosive agents, such as salt spray, acid rain, etc. This is best done by cleaning and waxing the turnbuckles with an automotive wax or chrome polish.

OVERHEAD VENTS

The vents can be cleaned from the top of the camper. Use soapy water on the vent cover. The screens may be vacuumed or lightly brushed, to remove accumulation of leaves or other debris. Lubricate the gears and mechanism yearly with a light, water resistant grease.

SKYLIGHT

The skylight/s should be cleaned at least once a year. Rinse the skylight with lukewarm water. Wash with mild soap and lukewarm water, using a soft cloth or sponge. Gently wash to loosen dirt and grime. DO NOT SCRUB or use brushes or squeegees. Repeat rinse, and dry with a soft cloth to prevent water spotting.

EXTERIOR LIGHTS

Check the operation of your truck and camper's exterior lights prior to each trip. Non-functioning bulbs can create many unsafe conditions. For example, if your turn signal bulb is not working, that reduces your ability to signal your intentions to other drivers, causing a potentially unsafe situation. When replacing exterior bulbs, to avoid possible leaks, take care that the sealant around the light fixture is not disturbed. Refer to the bulb replacement chart for the proper replacement bulb.

WIRING

Be sure the connector-plug prongs and receptacles are clean. Lightly coat all electrical terminal connections with non-conducting, light waterproof grease. Clean the prongs with very fine sandpaper, being careful not to damage the contact area.

INTERIOR MAINTENANCE ODOR

New campers may have a strong odor in hot weather and possibly cause eye irritation when closed for a prolonged period of time. Glue and other chemicals used in the manufacture of your camper can contribute to this issue. This condition passes with time but in an extreme conditions,

open the entry door and all windows and allow the inside to air out for several hours.

UPHOLSTERY AND DRAPES

Draperies, mattress covers, and upholstery are manufactured from quality materials and should be dry cleaned only. Some dry cleaning methods will damage vinyl or plastic found on cushions and drapes. Be sure to consult your local cleaners. Frequent vacuuming or light brushes between cleanings will help prevent accumulation of dirt and grime. Use of water based or detergent based cleaners may cause shrinking. Water stains may become permanent. Minor spills should be cleaned up quickly to avoid staining. The affected area should be blotted, not rubbed, to prevent the stain from working deeper into the fabric. On vinyl upholstery, remove dirt and dust with a vacuum cleaner. Wipe the vinyl with a soft cloth and dampen in a solution of mild soap and water. Use the same solution with a soft-bristle brush on more difficult spots. You can also use commercially available spray or foam-type vinyl cleaners.

⚠WARNING **DO NOT** USE LACQUER THINNER, NAIL POLISH REMOVER, CARBON TETRACHLORIDE, GASOLINE, OR NAPHTHA FOR ANY CLEANING PURPOSE. THESE PRODUCTS MAY CAUSE DAMAGE TO THE MATERIAL BEING CLEANED, AND ARE HIGHLY FLAMMABLE OR POISONOUS.

WALL AND CEILING PANELS

The paneling and ceiling of your camper may be composed of several finishes and textures. Never use harsh detergents or abrasive cleaners on walls or ceilings. Most surfaces will clean with a soft cloth moistened with mild liquid detergent in warm water. Do not saturate the material.

FLOORS AND CARPETING

Vinyl flooring requires only washing and periodic waxing. Vacuum the carpeting frequently to remove dirt. Ground-in dirt will make the carpet wear out faster. Periodically shampoo the carpet to keep it looking new. Use one of the foam type carpet cleaners on the market. Follow the instructions that come with the cleaner, applying it with a sponge or soft brush. Keep the carpeting as dry as possible by not adding water to the foam.

WOOD PRODUCT CARE

Remove dust with a clean slightly damp cloth. Apply a quality furniture polish and buff with a soft, dry cloth. Never use harsh detergents and solvents.

LAMINATE TOP CARE

Use a mild dishwashing liquid with warm water to clean your laminate tops. Use a soft cloth for both washing and drying. Abrasive cleaners, steel wool or gritty cleaners will damage the surface.

POWER RANGE HOOD

Clean the filter in detergent and hot water periodically and wipe down the surface of the range hood with mild soap and water. Use a soft cloth for both washing and drying.

REFRIGERATOR

Clean interior with mild soap and water after each trip. Defrost freezer and empty ice trays. When defrosting, be sure the drip tray is in place under the finned evaporator. Defrost water will be carried through a tube from the drip tray to the bottom of the camper overhang, below the refrigerator. Periodically check the drain tube to assure it does not become plugged. Leave the door open after cleaning.

DRAINS

If a stoppage develops in the sink or shower drain, DO NOT use lye or any other type of strong chemicals in the camper drains. Strong chemicals can harm the plastic in your waste system. We recommend using a standard wire drain cleaner.

SHOWER CARE

For routine cleaning, use a non-abrasive cleaner. Household fiberglass cleaners are recommended. Never use harsh detergents or abrasive cleaners. Never use a razor blade or steel wool to clean the surfaces.

SINK CARE

Do not use abrasive cleaners or scouring powers. Use of abrasive cleaners will dull or damage the surface of this product and could leave scratches. If material gets scratched, easy polishing brings back the original shine. It is recommended you use a gel cleaner or household cleaner made for fiberglass and acrylic.

DO NOT use scouring pads, steel wool, “scotch brite” type scratch pads, or any other abrasive scrubbers. Wipe only with a soft cloth or sponge.

Always use a cutting board or a sink protector when using knives or sharp objects. It is recommended that you use protective mats, racks, or dishpans to help protect your sink. Always allow pans to cool before setting them in your sink.

‘WARNING’ indicates a hazardous situation which, if not avoided, could result in death or serious injury.

MAINTENANCE CHART 1

SERVICE TO BE PERFORMED	EACH TRIP	BEFORE USE AT SET-UP & WEEKLY	MONTHLY
Inspect wiring, connector plug and receptacles	X		
Check exterior lighting	X		
Inspect & tighten mounting bolts on each jack corner	X		
Inspect and secure camper anchors	X		
Test propane leak detector for proper operation		X	
Test carbon monoxide detector for proper operation		X	
Test smoke detector for proper operation		X	
Inspect generator exhaust muffler & tailpipe clamps		X	
Check fire extinguisher			X
Inspect/clean battery cables, terminals, tighten wing nuts			X
Check battery charge (in storage)			X
Check battery electrolyte (in use)			X
Test GFCI (ground fault circuit interupter)			X
Wash exterior			X
Inspect water pump filter	X		
Bleed propane tanks after filling per instruction label on tank/s	X		
Inspect TV strap for secure fit and that TV tray latch is engaged	X		

MAINTENANCE CHART 2

SERVICE TO BE PERFORMED	EVERY SIX	YEARLY & AFTER PROLONGED STORAGE
Inspect camper jacks and lubricate per manufacturer's instructions	X	
Inspect roof sealants (required)	X	
Inspect compartment & access doors, moldings & window seals (required)	X	
Inspect all hot, cold, and drain plumbing		X
Sanitize fresh water tank		X
Complete propane pressure check & system check * Wax exterior		X
Clean & lubricate overhead vents		X
Lubricate locks, hinges and hardware		X
Replace smoke detector battery		X
Inspect & tighten air conditioner mounting bolts		X
Lubricate TV antenna per manufacturers recommendations		X
Lubricate slide mechanism along each side of the slide arms		X

**Item marked with asterisk requires special equipment and/or qualified LP technician*

WINTERIZATION

Operating in Freezing Conditions

If water freezes inside the system, it can damage piping and equipment.

- Keep the interior warm. This will help prevent water from freezing in the storage tank, pump and pipes. Open inside cabinets and allow warm air to circulate over the water system components.
- Add non-toxic anti-freeze to the holding tank(s). Refer to the instructions on the antifreeze container. For additional protection. consider installing a winter cover on the air conditioner.
- The sliding windows have weep holes, which drain water from the window tracks. In heavy rain and wind, water could be blown into the camper through these holes. To prevent this from occurring, put a piece of sponge in the track over the hole .

NOTE: LP FUEL WILL CONTINUE TO FUNCTION TO 44 DEGREES BELOW ZERO (-44°).

STORAGE

The following checklists will help you perform the steps necessary to prepare your camper for storage. Use the checklist that applies to the storage conditions you anticipate. These checklists do not include every detail required, and you may want to expand them to suit your needs.

Short-Term Storage

(Less than 45 days - Above Freezing)

1.) Wash the exterior.

2.) Park the camper as level as possible front to rear and side to side.

3.) Before disconnecting the battery cables, check the charge in the battery. Recharge as necessary. Clean terminals, top and sides of battery and battery box. Leave the battery disconnected or switch the battery disconnect switch to the 'STORE' position.

4.) Drain the holding tanks, toilet, and fresh water tank. Turn off the water pump and water heater.

5.) Turn off the propane at tank valve.

6.) Turn off the refrigerator, furnace, all range and oven burner valves and pilot.

7.) Remove all perishables from refrigerator and galley cabinets. Leave the refrigerator door open to reduce odor buildup. An open box or tray of baking soda in the refrigerator will help absorb odors.

8.) Slightly open (1/4") a roof vent.

9.) Close and lock all windows. Be sure the vent fan and range hood fan switches are off.

10.) Cap and close the holding tank drain, city water inlet and fresh water fill spout.

11.) Turn off all radios, TV's, interior and exterior lights.

12.) Close the mini blinds and day/night shades.

13.) Disconnect the 120-volt power cord and store in compartment.

14.) If removing the camper from the truck, follow the procedure and warnings in Section 3 of this manual.

15.) Check the camper weekly.

LONG-TERM STORAGE (Above Freezing)

1.) Perform all the preceding short-term storage steps.

2.) Operate air conditioner periodically to lubricate compressor seals.

3.) Remove and place the battery in a cool, dry area. Check the battery charge every 30 days. Recharge as necessary.

4.) Check the sealants around all roof seams, body seams and windows. Reseal if necessary. See General Maintenance, Exterior, in the beginning of this section.

5.) Prepare the generator (if equipped). See Generator Operating Manual included in the Owner's Information Package, provided with your camper.

6.) Remove the smoke detector's battery. Leave the cover open as a reminder to replace the battery before beginning operation.

7.) Cover exterior vents, i.e., water heater, furnace, air conditioner shroud, range hood, refer, to prevent insects and small animals from entering the camper through these openings. Be sure to remove all covering materials before using appliances and vents.

STORAGE

(Below Freezing)

To avoid damage to the plumbing fixtures and other components, we recommend that your camper plumbing system be properly drained and have antifreeze protection. The following is a procedure checklist you can follow if you prefer to winterize your camper yourself. Many owners prefer to have a Palomino RV Dealer Service Center perform this service.

1.) Perform all steps in the short and long term storage procedures.

2.) Drain the fresh water tank by opening the water tank drain and leaving open.

3.) Turn the water pump ON and open all hot and cold water faucets. When the flow of water stops, turn the pump OFF. Open the low point drains on the hot and cold water pipes.

4.) Drain the water heater by opening the drain plug at the bottom of the heater and open the pressure relief valve.

5.) Depress the toilet flush pedal or hand-operated lever. Turn OFF all faucets, close the water line drain valves, fresh water tank drain valve, water heater drain and pressure relief valve.

6.) Drain the showerhead and hose by disconnecting the hose at the faucet from the inside and outside shower.

7.) Drain the waste water system by following the normal procedure for draining the holding tanks. For more information, see Plumbing, Section 7 in this manual.

8.) Be sure ALL water from ALL plumbing has been drained. Draining the water system alone will not provide adequate cold weather protection. If the camper is to be unheated during freezing temperatures, consult your dealer for the best winterizing procedure for your climate. Your dealer can supply you with one of the special non-toxic antifreezes that are safe and approved for use in RV water systems. Follow the instructions on the antifreeze container.

⚠WARNING **DO NOT** USE AUTOMOTIVE ANTIFREEZE IN THE CAMPER WATER SYSTEM. AUTOMOTIVE ANTIFREEZE IS TOXIC AND IS NOT SAFE FOR USE IN POTABLE (DRINKABLE) WATER.

WINTERIZING METHOD

1.) Be sure the water pump switch is OFF.

2.) Insert the hose from the winterizing valve into a container of RV approved, non-toxic anti-freeze.

3.) Turn the water heater bypass valve to BYPASS position and drain the water heater by removing the drain plug and opening the safety relief valve. Open both hot and cold faucets to relieve pressure. Open the hot and cold low point drains.

4.) Drain the water tank by opening the tank drain and leave open to drain completely.

5.) After the system is completely drained, close all faucets and turn off the low point drain valves.

6.) Turn the winterize valve to the WINTERIZE position.

7.) Turn ON the water pump switch.

8.) Open the hot water faucet farthest from the water tank. When antifreeze appears, let at least one cup run down the drain to winterize the P-trap. Do the same to all other water outlets, hot and cold, including shower, toilet and outside shower.

9.) Turn OFF the pump switch.

10.) Open a water faucet to relieve pressure, and then close.

11.) The procedure is complete.

WATER HEATER BYPASS

The water heater bypass valve is located behind the water heater and is used when winterizing the water system for storage. By rotating the lever to the bypass position, antifreeze will not enter the water heater, requiring less antifreeze to protect the water system plumbing. Follow the instructions shown on the valve.

NOTE: BE SURE TO DRAIN THE WATER HEATER BY OPENING THE DRAIN PLUG AT THE BOTTOM OF THE HEATER AND OPEN THE PRESSURE RELIEF VALVE.

TO DEWINTERIZE:

1.) First, fill the water tank.

2.) Turn the winterizing valve to normal flow position.

3.) Turn the water heater bypass valve to BYPASS, this will keep antifreeze from entering the water heater.

4.) Turn ON the water pump switch.

5.) Open the water faucet farthest from water tank, catching antifreeze in a container for future use, until clear water appears. Shut off the faucet. Do this to all other faucets and the showerhead, including outside shower.

6.) Turn the water heater bypass valve to normal flow position.

7.) Open hot water faucet until water appears.

8.) Your system is now ready for use.

FRESH WATER SYSTEM

1.) If the fresh water system has been winterized, drain the antifreeze from fresh water system.

2.) Turn the water pump on and open all faucets until flow of antifreeze stops.

3.) Do not let antifreeze stand on plastic sinks or outside shower components or stains may occur.

4.) Open the water heater bypass valves.

5.) Flush and sanitize the fresh water system as outlined in the “Fresh Water System” section.

6.) Operate all faucets and fixtures in the fresh water system. Check for leaks at all joints and fittings. Repair if necessary.

REACTIVATING CAMPER AFTER STORAGE

The following procedure checklist assumes that you stored the camper with care. If you didn’t and extensive freeze damage or other serious deterioration may have occurred, please consult your Palomino Dealer Service Center for advise.

‘WARNING’ indicates a hazardous situation which, if not avoided, could result in death or serious injury.

OUTSIDE AREA

1.) Thoroughly inspect the outside of the camper and open all doors and compartments. Check for animals or insect intrusion, water damage or other deterioration.

2.) Remove all appliance vents, ceiling vent and air conditioner coverings. Be sure all furnace, water heater, and refrigerator openings are clear and free of debris or insect nests, webs, etc.

3.) Open vents and windows.

12-VOLT SYSTEM

1.) Prior to the battery installation, check charge level. Refill and recharge as necessary. Inspect cable ends and ensure that terminals are clean and free of corrosion. Place the battery into the compartment, install tie-downs, and connect cables. Turn battery switch to the USE position. Check the battery condition on the monitor panel.

2.) Be sure all 12-volt DC and 120-volt AC circuit breakers are ON.

3.) Inspect and operate all 12-volt lights and accessories.

PROPANE SYSTEM

1.) Turn on propane valves and inspect all pipes and fittings in the propane system. Check for leaks as outlined in Section 5 of this manual.

2.) Operate each propane appliance. Observe all burners and pilot flames for proper color and size.

If there are any problems, refer to an authorized Palomino Dealer Service Center.

FORMALDEHYDE FROM BUILDING MATERIALS

Certain building products such as particleboard, fiberboard and hardwood plywood are manufactured with an adhesive containing urea-formaldehyde. These products emit a small quantity of formalde- hyde into the air.

Other products containing formaldehyde or urea-formaldehyde resins are some carpets, draperies, upholstery, fabrics, deodorizers, cosmetics and permanent press fabrics. Formaldehyde is also a by-product of combustion and is produced by cigarettes and gas appliances.

The concentration of formaldehyde in the indoor air depends upon the quantity and emission rates of all emission rates of all emitting products in the structure compared to the volume of indoor air and the fresh air ventilation rate. As with other indoor pollutants, ventilation should reduce formalde- hyde levels.

⚠WARNING FORMALDEHYDE LEVELS IN THE INDOOR AIR CAN CAUSE TEMPORARY EYE AND RESPIRATORY IRRITATION AND MAY AGGRAVATE RESPIRATORY CONDITIONS OR ALLERGIES.

WATERPUR™

To help you choose quality water treatment products, the Water Quality Association develops its Gold Seal program. WQA tests water treatment equipment and awards the Gold Seal only to those systems that meet or exceed industry standards for per- formance, capacity and integrity in removing a variety of drinking water contami- nants. WQA Gold Seal testing and validation is available for drinking water treatment units. It provides the following assurances:

1.) Performance Testing - measures contaminant reduction capabilities over the life and capacity of the unit.

2.) Structural Integrity - measures durability under pressurization beyond the usual demands of home water systems, simulating 10 years of normal use.

3.) Materials Safety - confirms a product does not add anything harmful to the water being treated.

4.) Literature Review - verifies clarity and accuracy of product literature sales and advertising copy, installation and maintenance instructions, and product labeling.

Gold Seal labeled products must meet the Water Quality Association's Code of Ethics standards. Only the Water Quality Association can award the Gold Seal, and only products meeting compre- hensive industry standards can earn it.

Look for the **Gold Seal** and buy with confidence. For more information, write:

Water Quality Association
4151 Naperville Rd.
Lisle, Il. 60532-1088
(A not-for-profit organization.)

Visit our website at: www.wqa.org

The WaterPur™ Models CCI10CLW12 & CCI-5CLW12 have been tested and awarded the WQA Gold Seal certifying these systems meet or exceed industry standards for performance, capacity and integrity under WQA S-200 for Household and Commercial Water Filters.

Operating Instructions

Model CCI-10CLW12

The WaterPur™ system filters all water going into your RV, not just drinking water, thereby protecting your complete

'WARNING' indicates a hazardous situation which, if not avoided, could result in death or serious injury.

plumbing system from contaminants, providing filtered cold and hot water, and providing filtered water to your bathroom. It also:

- removes over 99% of chlorine, taste and odor
- removes over 99% of turbidity
- removes over 99% of Giardia & Cryptosporidium
- does not channel, fluidize, or bypass like a granular activated carbon filter
- does not permit the passage of cultivated bacteria like a granular activated carbon filter
- does not contain silver nitrate or any other pesticide or harmful chemical
- is constructed from all NSF listed materials
- is rated for 10,000 gallons or one year
- has a flow rate of 2.5 gallons per minute

The WaterPur™ cartridge is made of activated carbon particles fused into a uniform block, providing mi- cron filtration. Service life is greatly extended by a 15 micron polypropylene prefiltration medium and a layer of 5 micron polypropylene melt blown intermediate filtration medium.

The replaceable cartridge, which is the heart of the WaterPur™ system has been tested to meet the material requirements of NSF Standards 42, 53 and 5It has been tested to meet the performance requirements of NSF Standard 42 for Class 1 Chlorine reduction and Standard 53 for Class 1 Turbidity and Cyst reduction.

Sanitize

Prior to using your RV's fresh water system with the WaterPur™ CCI-10CLW12 installed, the entire system should be sanitized and rinsed. Make certain that the WaterPur™ filter cartridge is not in the filter housing.

- Place one ounce of household bleach (such as Clorox) in your RV's fresh water tank, for each ten gallons of capacity. (If your tank holds 30 gallons, put 3 ounces of bleach in the tank.) Fill your RV's fresh water tank with potable water.
- SLOWLY open the faucets in the RV and allow water to flow until you smell chlorine at each faucet, then close the faucet. DO NOT PERMIT THE CHLORINATED WATER TO SPLASH ONTO CLOTHES, WALLS, COUNTERS OR FLOORS. Allow the system to sit overnight.
- Drain the fresh water tank and fill with potable water. Run the faucets until the chlorine smell is gone. Repeat as necessary.
- Shut off the fresh water pump or disconnect from your city water supply. Open the kitchen faucets to remove pressure. Place a shallow pan beneath the WaterPur™ filter.
- Remove the sump from the WaterPur™ housing by turning counterclockwise being careful not to spill the water in the housing. Empty the water from the housing.
- Unwrap the WaterPur™ cartridge and place it in the housing. (Either side up). Make certain that the 'O' ring is properly seated, and reattach the housing to the filter cap by turning clockwise. Tighten the housing firmly by hand. DO NOT overtighten.
- Close the kitchen faucets and either turn on your fresh water pump or your city water supply.

Check for leaks at the filter housing. Tighten if necessary. Open the kitchen faucet and allow water to flow for ten minutes. Your WaterPur™ system is now ready to deliver fresh tasting filtered water to all of the faucets in your RV!

Winterize

To winterize your RV's water system. remove the WaterPur™ cartridge from the housing and follow manufacturer's directions for dewinterizing, then replace the WaterPur™ cartridge. The cartridge should be replaced every 12 months or 10,000 gallons, whichever comes first.

Dewinterize

An easy way to remember to do this is to replace the cartridge when you dewinterize in the spring. Replace the WaterPur™ cartridge only with a genuine WaterPur™ cartridge available from your Palomino RV dealer.

OPERATIONAL NOTE:

The WaterPur™ cartridge is not to be autoclaved or steam sterilized. Use the WaterPur™ cartridge with microbiologically safe water. Activated carbon filters are not designed to kill or remove bacterial or viruses. Actual results obtained will vary with various combinations of organic contaminants, changes in pH or other conditions encountered in actual use.

All information presented is based on data believed to be reliable. It is offered for evaluation and verification, but is not to be considered a warranty of any kind. The contaminants removed by the WaterPur™ cartridge are not necessarily in your water.

Some jurisdictions tax, regulate or restrict devices making health related or aesthetic claims. WaterPur™ makes no claims in those jurisdictions.

WARRANTY

The WaterPur™ system is warranted against defects in material and workmanship for a period of one year from date of purchase. Warranty does not cover damage due to abuse, neglect, improper installation, exposure to pressure or temperature above or below stated operating parameters, or improper winterizing.

The Seller makes no other warranties of any kind, expressed or implied concerning this product, including warranties of

merchantability or fitness for a particular purpose, except that this product should be capable of performing as described in this manual.

Seller's obligation for this product's performance below specifications shall be limited solely to the replacement of product proven defective, at the Seller's sole discretion. Determination of suitability of product for uses contemplated by Buyer, shall be the sole responsibility of Buyer. Use of this product constitutes Buyer's acceptance of this limited liability.

DESCRIPTION

The WaterPur™ Model CCI-10CLW12 is a Household Class, Group 2, water filtration device designed for installation in recreational vehicles. It has a micron rating of 1 micron, a capacity of 10,000 gallons of chlorine removal at 2.5 gallons per minute. This capacity was determined under WQA Standard S-200 Test Conditions, and may vary with local water characteristics.

The cartridge consists of activated carbon particles fused into a uniform block with enhanced absorptive capacity and efficiency. The cartridge flows in a radial outside-to-inside direction providing increased dirt capacity and low pressure drop (8 psid @ 1 gpm service flow, maximum differential pressure of 100 psid and a collapse pressure of 200 psid).

Unlike granular activated carbon (GAC) filters, the extruded carbon will not channel or bypass, due to the extreme uniformity of its extruded activated carbon core. Service life is greatly extended by a layer of 15 micron polypropylene spun-bonded prefiltration medium and a second layer of 5 micron polypropylene melt blown filter medium.

Maximum cartridge operating pressure is 125 psig and maximum operating temperature is 1250 F. Minimum operating temperature is 400 F. The housing and cartridge are constructed of 100% NSF listed materials.

IDENTIFICATION INFORMATION

For identification purposes, it is recommended that you write the camper serial number, in a hidden place inside your camper. Choose a place behind a drawer or inside a cabinet. This will allow you to be able to indentify your camper in case of a theft. Keep a copy of this information at home as well. If a theft should occur, the appliance information will also aid the police in identifying your camper.

Your Name _____

Serial Number 4X4S _____
(17 letters and digits beginning with 4X4S)

Selling Dealer Name _____

Address _____

_____

_____

_____

Camper Model _____

Purchase Date _____

Entry Door Key Number _____

Miscellaneous Information

_____

_____

_____

Insurance Policy Number _____

Agent's Phone Number _____

Agent's Name _____

Air Conditioner

Manufacturer _____

Model # _____

Serial # _____

Furnace

Manufacturer _____

Model # _____

Serial # _____

Range/Oven

Manufacturer _____

Model # _____

Serial # _____

Refrigerator

Manufacturer _____

Model # _____

Serial # _____

Television

Manufacturer _____

Model # _____

Serial # _____

DVD/CD Player

Manufacturer _____

Model # _____

Serial # _____

Water Heater

Manufacturer _____

Model # _____

Serial # _____

Miscellaneous Information

_____

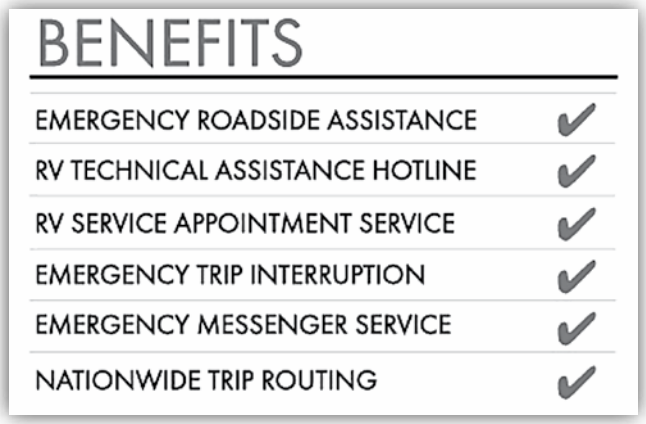
_____

_____

_____

Emergency Roadside Assistance

When you take delivery of your new Forest River RV you can travel worry free knowing you have a RV technical expert and emergency roadside assistance just a phone call away. We've teamed up with one of the largest, independently owned emergency roadside assistance providers in the country to give you immediate access to fast, dependable service when and wherever you need it. Coach-Net RV Technical & Roadside Assistance has been included in your purchase – FREE for 1 year!



For further details regarding how to access your Emergency Roadside Assistance, please call 1-877-801-0333.

Benefits

- **On-Site Emergency Roadside Assistance** includes services such as towing, flat tire assistance, delivery of emergency fluids, jump start/battery boost and lockout/locksmith. Winch out or extraction services required in order to tow the disabled vehicle are covered for one man, one truck for two hours or two men, two trucks for one hour up to 100 feet off a maintained road or in a commercial campground.
- **RV Technical Assistance Hotline** is staffed with certified technicians and factory trained reps who understand the unique needs of RVers. Having access to a RV expert who can guide you through many common operational issues over the phone is priceless.
- **RV Service Appointment Assistance** is a hassle-free way of arranging for a service appointment when and where you travel. We make an appointment for you; give you directions and a time that fits your schedule.
- **Emergency Trip Interruption –** Should your vehicle become disabled due to a collision more than 100 miles from home you may be reimbursed up to $2000; Reimbursement up to $300 for the rental of an automobile, up to $1000 for airline tickets, up to $300 for meals and up to $400 for hotel/motel lodging to the extent made necessary by the conditions of the emergency and subject to any limitations under applicable state law.
- **Emergency Messenger Service –** stay in touch with family and friends with no cost emergency message service.
- **Nationwide Trip Routing –** Make your next trip more enjoyable with custom trip routing and full color maps. We provide easy to follow maps and directions, travel tips, and a list of interesting places to see and much more.

Coverage

Coverage is available for 1 year on your new RV and one additional family automobile or truck identified as eligible for the plan. Assistance is available 24-hours a day, 7 days a week by calling the toll free number on your ID Card. Services are available on a "sign & drive" basis throughout the U.S. and Canada and services are available in Mexico but limitations apply.

Coach-Net®
RV Technical & Roadside Assistance

Benefits and services provided by NMC-RV, Inc. This is a brief summary of the program benefits. Limitations, restrictions and exclusions apply. If there are any conflicts between this document and the Guide, the Guide shall govern.

MAINTENANCE / REPAIR SCHEDULE		
Date	**Maintenance/Service Procedure**	**Service Center Name/Address/Phone**

MAINTENANCE / REPAIR SCHEDULE		
Date	**Maintenance/Service Procedure**	**Service Center Name/Address/Phone**

1047 E M86
Colon, MI 49040
WWW.PALOMINORV.COM

Learn More
Scan this barcode using a QR Reader on your smart phone to learn more about Forest River.

A Berkshire Hathaway company.

Forest River, Inc.
Corporate Office
PO Box 3030
55740 County Road One
Elkhart, IN 46515-3030
Phone (574) 389-4600

Forest River, Inc., a Berkshire Hathaway company.